

19990630.qrp v01_n504.qrl.990630

Date: Wed, 30 Jun 1999 19:03:25 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1504

QRP-L Digest 1504

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- 1) [43817] Re: Water Bottle Throwing
by "Phinizy, William" <wphinizy@filenet.com>
- 2) [43818] Re: propagation rpts
by "Randy Jouett" <rules@bellsouth.net>
- 3) [43819] Re: SALVAGE DLN?
by "Randy Jouett" <rules@bellsouth.net>
- 4) [43820] Fw: DC, Logic-Switched , Audio-Oscillator Receiver Part II
by "Randy Jouett" <rules@bellsouth.net>
- 5) [43821] Re: Dummy Load Night - freq's?
by PUNISHER3@aol.com
- 6) [43822] RE: RS Model 100 FD Logger/Keyer SOURCE CODE AND DOCUMENTATI
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by Sam Billingsley <SBillingsley@usaninc.com>
- 7) [43823] ARRL Periodical CD-ROMs
by Luke Stras <stras@ecf.utoronto.ca>
- 8) [43824] field day lessons
by "Don Chisholm WX3M" <dchishol@oakland.edu>
- 9) [43825] FD 99
by n4js@pobox.com (John Sielke)
- 10) [43826] Twinky paddle
by r_buschner@KNUUT.de (Ralf K. Buschner)
- 11) [43827] FD 99 -DON'T DO's
by "Bob Reynolds" <breynold@SIGG.COM>
- 12) [43828] Re: FD 99 -DON'T DO's
by K2UD@aol.com
- 13) [43829] Re: MC34119
by neil <neil@aade.com>
- 14) [43830] Ft-990 QRP
by Jay Freeman <jayFreem@direcpc.com>
- 15) [43831] Metal Working Advice Needed
by "Chuck Adams K5FO" <adams@ticnet.com>
- 16) [43832] Collapsible antenna poles?
by Howard D Rubin <n3fel@juno.com>
- 17) [43833] Re: Metal Working Advice Needed
by Chris Trask <ctrask@primenet.com>
- 18) [43834] Killer Tree Limb Wire/Rope Antenna Project (kinda long...sry)
by hamjoel@juno.com

- 19) [43835] Cabinetry
by n5ib@juno.com
- 20) [43836] Re: Metal Working Advice Needed
by "curt" <k3ivb@stargate.net>
- 21) [43837] dBm
by lane cox <lanecox@hotmail.com>
- 22) [43838] DUMMY ME !!
by "Walter D. Amos" <waltk8cv@mpdr0.detroit.mi.ameritech.net>
- 23) [43839] Re: dBm
by david fouchey <dafouchey@home.com>
- 24) [43840] Solar Summary 6-29
by "Paul Harden, NA5N" <na5n@rt66.com>
- 25) [43841] Re: Metal Working Advice Needed
by Chris Trask <ctrask@primenet.com>
- 26) [43842] TTL transceivers.....part 2
by jmarran@juno.com
- 27) [43843] Working QRP with "non-standard" gear....
by jmarran@juno.com
- 28) [43844] Re: QRP Rigs for Sale
by "Rod Cerkoney" <rlw@frii.com>
- 29) [43845] Kanga Kits for QRP
by jmarran@juno.com
- 30) [43846] Re: DUMMY ME !!
by Bob Patten <n4bp@bc.seflin.org>
- 31) [43847] Re: Metal Working Advice Needed
by "John Moriarity" <k6qq@hdo.net>
- 32) [43848] Propagation Primer 101
by "Paul Harden, NA5N" <na5n@rt66.com>
- 33) [43849] Re: Collapsible antenna poles?
by Russ Dow <n7dw@garlic.com>
- 34) [43850] NW QRP Club Field Day
by "Bill Todd" <bill@willapabay.org>
- 35) [43851] QRP-L CDRom now available in VK/ZL land
by David Matthews <vk2kfa@yahoo.com>
- 36) [43852] FD from MD
by Joseph Mikuckis <k3chp@erols.com>
- 37) [43853] Re: FD 99 -DON'T DO's
by "Nick Kennedy" <nkennedy@cswnet.com>
- 38) [43854] Re: DUMMY ME !!
by Michael Bower <bowerm@ix.netcom.com>
- 39) [43855] Re: dBm
by "Nick Kennedy" <nkennedy@cswnet.com>
- 40) [43856] Re: DUMMY ME !!
by "Nick Kennedy" <nkennedy@cswnet.com>
- 41) [43857] comments on MFJ Portable Antenna 1621?
by Michael Bower <bowerm@ix.netcom.com>
- 42) [43858] rig for novice then general
by Michael Bower <bowerm@ix.netcom.com>

- 43) [43859] Re: rig for novice then general
by Joe L Blackwell <aa4nn@juno.com>
- 44) [43860] Re: Metalworking advice
by w4pj@w4bku.ampr.org
- 45) [43861] Re: rig for novice then general
by Jeff Davis <jeff@jehosophat.com>
- 46) [43862] Re: Collapsible antenna poles?
by "dor" <elbc@pivot.net>
- 47) [43863] Re: Killer Tree Limb Wire/Rope Antenna Project (ki
by Michael Neverdosky <MichaelN@cycat.com>
- 48) [43864] DLN
by mikemo@ibm.net
- 49) [43865] Re: Collapsible antenna poles?
by George F Franklin <w0av@juno.com>
- 50) [43866] NFL
by "Art Marshall" <artm@t-com.com>
- 51) [43867] Jan DL night
by "Chuck Carpenter" <w5usj@globeco.net>
- 52) [43868] RE: Propagation Primer 101
by Don Lefrancois <wb1cdh@cwix.com>
- 53) [43869] Re: Collapsible antenna poles?
by "Joe Spencer" <KK5NA@quadj.com>
- 54) [43870] dimm bulbs of DLN
by Philip Karras <ke3fl@yahoo.com>
- 55) [43871] Re: Metal Working Advice Needed
by "curt" <k3ivb@stargate.net>
- 56) [43872] Re: Power line grounds
by "Buck, Preston D" <BuckPD@corning.com>
- 57) [43873] Re: Metal Working Advice Needed
by Chris Trask <ctrask@primenet.com>
- 58) [43874] Re: Water Bottle Throwing
by John Evans - N0HJ <jae@codenet.net>
- 59) [43875] DLN Scorecard
by Mark Sailer <msailer@msailer.rhic.bnl.gov>
- 60) [43876] Re: dBm
by John R Kirby <n3aaz-qrp@juno.com>
- 61) [43877] HW-8 problems
by Paul Antoniewicz <pja@sofsol.com>
- 62) [43878] TELESCOPIC MAST PLANS
by ARDUJENSKI@aol.com
- 63) [43879] Field Day: WQ2RP
by Ken Newman <N2CQ@citnet.com>
- 64) [43880] << DLN very long >>
by "Art Marshall" <artm@t-com.com>
- 65) [43881] Re: dBm
by "Chuck Carpenter" <w5usj@globeco.net>
- 66) [43882] Test
by "Dan Wolfe" <n4roa@mounet.com>

67) [43883] Re: dimm bulbs of DLN
by James Owen <owen@piper.eeel.nist.gov>
68) [43884] Re: dBm
by Michael Neverdosky <MichaelN@cycat.com>
69) [43885] Electronics problem (not QRP)
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
70) [43886] QRP AFIELD DATE?
by ARDUJENSKI@aol.com
71) [43887] Jan DL night
by Monte Stark <ku7y@dri.edu>
72) [43888] Re: FD 99 -DON'T DO's
by "Edward A Kwik jr" <eakwikjr@hti.com>
73) [43889] AR QRP 40m Net Tonight
by Robsparks@aol.com
74) [43890] FD 99 with K2
by "Bob Tellefsen" <n6wg@earthlink.net>
75) [43891] Re: Electronics problem (not QRP)
by wd8civ@att.net
76) [43892] DLN Report -- WE6W
by Ed Loranger <we6w@qsl.net>
77) [43893] Re: Metal Working Advice Needed
by Jim Larsen AL7FS <al7fs@pobox.alaska.net>
78) [43894] Re: FEEDING AN END FED 1/2 WAVE
by Chuck Ludinsky <cjl@mitre.org>
79) [43895] Re: FEEDING AN END FED 1/2 WAVE
by "Arthur G. Silvers" <ags@ieee.org>
80) [43896] dBm
by lane cox <lanecox@hotmail.com>
81) [43897] Email problems...
by Larry East <w1hue@amsat.org>
82) [43898] Metal Working 101
by "Chuck Adams K5F0" <adams@ticnet.com>
83) [43899] Re: DLN Catch 22
by Bruce Kizerian <kizerian@ced.utah.edu>
84) [43900] Re: Metal Working Advice Needed
by Norm Melick <henmel@worldnet.att.net>
85) [43901] Re: DLN Report -- WE6W
by hamjoel@juno.com
86) [43902] 1/2 WAVE FOCUS
by ARDUJENSKI@aol.com
87) [43903] Re: Water Bottle Throwing
by Jay Freeman <jayFreem@direcpc.com>
88) [43904] Re: Jan DL night
by Bob Patten <n4bp@bc.seflin.org>
89) [43905] Getting the last word in!
by DENNISMO@aol.com
90) [43906] Re: Cabinetry
by "William R. Colbert" <af852@rgfn.epcc.edu>

- 91) [43907] Re: DLN Report -- WE6W
by Ed Loranger <we6w@qsl.net>
- 92) [43908] Flame Bait 101
by "Richard E. Robinson" <rerobins@email.uncc.edu>
- 93) [43909] New Products from Morse Express
by "Marshall Emm" <mgemm@mtechnologies.com>
- 94) [43910] Re: Metal Working 101
by "Tracy, Michael, KC1SX" <mtracy@arrl.org>
- 95) [43911] IRN was: DUMMY ME !!
by "Steven Weber" <kd1jv@moose.ncia.net>
- 96) [43912] Need Ten Tec collectors help
by "curt" <k3ivb@stargate.net>
- 97) [43913] Re: DLN Report -- WE6W
by "Chuck Carpenter" <w5usj@globeco.net>
- 98) [43914] Re: Metal Working 101
by Chris Cartwright Sr <ccart@phideaux.com>
- 99) [43915] QRP-L First 2 posts! Re: QRP-L CD Available NOW!!!
by "Paul R. Valko" <prvalko@oakland.edu>
- 100) [43916] FD from Oahu
by "Mike W. Burger" <mike@gold.chem.hawaii.edu>
- 101) [43917] Re: dBm
by neil <neil@aaade.com>
- 102) [43918] Re: DUMMY ME !!
by "Randy Jouett" <rules@bellsouth.net>
- 103) [43919] QRP SSB FD with SG-2020. It still works!
by "Mike Pupeza" <mpupeza@csolve.net>
- 104) [43920] RE: Jan DL night
by "Alex Mendelsohn" <ai2q@ispchannel.com>
- 105) [43921] RE: Cabinetry
by Jim Ek <JIM-EK@worldnet.att.net>
- 106) [43922] Re: Dummy Load Night
by "Phinizy, William" <wphinizy@filenet.com>
- 107) [43923] Re: FD 99 -DON'T DO's
by "Dennis & or Jennie" <denjen92@net-link.net>
- 108) [43924] looking for...
by Allan G Taylor <k7gt@arrl.net>
- 109) [43925] HW8 Output Tweaking
by Jim Lyons <lyons@canada.com>
- 110) [43926] Dummy Load Night - What I Learned
by "Tom Moll" <tomm@xata.com>
- 111) [43927] Re: Metal Working 101
by Monte Stark <ku7y@dri.edu>
- 112) [43928] RE: Jan DL night
by Bob Patten <n4bp@bc.seflin.org>
- 113) [43929] Re: Dummy Load Night
by Monte Stark <ku7y@dri.edu>
- 114) [43930] Re: FD 99 -DON'T DO's
by Larry Cahoon <wd3p@juno.com>

- 115) [43931] July 99 QRP Quarterly
by Monte Stark <ku7y@dri.edu>
116) [43932] FS: Alinco DX-70TH
by "James S. Braun" <jbraun@localnet.com>
117) [43933] Re: Metal Working 101
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
118) [43934] Re: Jan DL night
by Monte Stark <ku7y@dri.edu>
119) [43935] Re: dBm
by "Nick Kennedy" <nkennedy@cswnet.com>
120) [43936] Re: Flame Bait 101
by Dan Copeland <kf0ov@alltel.net>
121) [43937] Monday night SP !!
by malman@world.std.com (Joel Malman)

Date: Tue, 29 Jun 1999 16:24:09 -0700
From: "Phinizy, William" <wphinizy@filenet.com>
To: "'QRP-1 List Server'" <qrp-1@Lehigh.edu>
Subject: [43817] Re: Water Bottle Throwing
Message-ID: <C3AF5E329E21D2119C4C00805F6FF58F01DE01F0@hq-expo2.filenet.com>

..I have had good success with a baseball that has a screweye stuck in it
and fishing line or cord attached. But, boy, my arm has deteriorated
from the days when I played centerfield for the base softball team!

Date: Tue, 29 Jun 1999 16:28:45 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: <w5jay@alltel.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43818] Re: propagation rpts
Message-ID: <001501bec286\$b4158cf0\$22e498cd@spock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----
From: Jay Bromley <w5jay@alltel.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: 6/29/1999 11:25 AM
Subject: Re: propagation rpts

>Check out Paul at one of the QRP forums, he's great!!!!
>73 de w5jay..

That would be fantastic, Jay, but I usually take my vacation from mid June until around early November, and the rest of the time I'm killing myself at work. Anywho, maybe one of these years I'll make it to FDIM and go into ultra-geek mode :^).

>Randy Jouett wrote:

>
>> Well, maybe you could talk Paul, NA5N -- the dude that
>> posts this valuable info on here and translates it into plain
>> English for hams -- into doing this. Doesn't hurt to ask! :^)
>>
>> 73
>> ----
>> Randy Jouett, AB5NI
>
>

Date: Tue, 29 Jun 1999 15:44:00 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: <ARDUJENSKI@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43819] Re: SALVAGE DLN?
Message-ID: <001401bec286\$b311d890\$22e498cd@spock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: ARDUJENSKI@aol.com <ARDUJENSKI@aol.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: 6/29/1999 1:28 PM
Subject: SALVAGE DLN?

>It is too bad that they don't salvage DNL by coming up with a compromise that
>you can use a 50ft of wire...at least there would be some activity and it
>would still be a real challenge...Alan KB7MBI
>

Too true, Alan! Maybe they could make some different classes? One class would use a feedline, another would use radials, etc. You could also put up different types of setups: one dummy load with radials; one dummy load with a feedline, and one regular dummy-load setup. A contact with each different type of setup would have different point values. So, you could contact a station with the feed-line variation, get a report, drop down a notch and use the radial version and make a contact, and then try for the ultimate multiplier and "try" to contact em' using the dummy load. BTW, can we use 65-foot long ground wires? :^) :^) :^)

73

Randy Jouett, AB5NI

P.S.

I can't believe we're all actually spending this much time with this subject!

Maybe we should get a "BIG DUMMY" certificate for just participating in this conversation! :^)

As an after thought, I have to say that the majority of the dummy-load conversations that have actually taken place were prolly held because the ground wire was radiating. Go figure :^)

Date: Tue, 29 Jun 1999 18:32:15 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43820] Fw: DC, Logic-Switched , Audio-Oscillator Receiver Part II
Message-ID: <001f01bec287\$a6de90d0\$22e498cd@spock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>
>-----Original Message-----
>From: wd8civ@att.net <wd8civ@att.net>
>To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
>Date: 6/29/1999 10:12 AM
>Subject: Re: DC, Logic-Switched , Audio-Oscillator Receiver Part II

> A friend of mine, resident Bell Labs Cajun John "Barry" Bartell, told me
> that they were working on telephone white-noise signal injections back in
> the
> mid 80's because of the same problem.

>Randy,
>
>Yup - that's where I heard about it. With compression on the voice data,
>there's nothing to transmit during a "silent" period. People would mistake
>the silence for a lost connection.

Yep (southerner version of Yup?? :^). Dat's it! Barry also told me that they
were injecting voice packets (read: another conversation) during
conversation pauses. Go figure :^).

>Some of the "advanced" systems would sample the background noise, calculate
>some statistics on what the noise "sounded" like, and transmit those
>figures to the receiver, which would use them to generate pseudo-random
>noise with the same characteristics whenever it wasn't receiving a voice
>data
>stream.

Hmmmmmm. I wonder if they could modify that situation by transmitting
compressed data that "sounded" like noise but was actually valid data?
Should increase their thru-put tremendously! Sumfin' tells me that they
are already doing sumfin' like this, though :^). On the other hand, Barry
can be a knot-head from time to time :^) :^).

>So, does that count as QRN (background noise), QRM (machine-created noise),
>or is it valid communication?

Well, I guess a lil' bit of both of em'; however, if they use the tactic
that I stated earlier, it could be considered to be all three :^).

145 (72 + 73), Dave!

Randy Jouett, AB5NI

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Date: Tue, 29 Jun 1999 19:43:00 EDT
From: PUNISHER3@aol.com
To: qrp-l@lehigh.edu
Subject: [43821] Re: Dummy Load Night - freq's?
Message-ID: <482029f9.24aab404@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

hello,
I probably missed this, but is there a certain band that we should all be on for DLN?

Date: Tue, 29 Jun 1999 20:19:45 -0400
From: Sam Billingsley <SBillingsley@usaninc.com>
To: "Qrp1_Submit (E-mail)" <qrp-l@Lehigh.EDU>
Cc: Sam Billingsley <SBillingsley@usaninc.com>
Subject: [43822] RE: RS Model 100 FD Logger/Keyer SOURCE CODE AND DOCUMENTATION AVAILABLE NOW
Message-ID: <21E06269B00ED111BE9B00805F6D0FA3980AFA@MAILSERVER1>
MIME-Version: 1.0
Content-Type: text/plain

The simple documentation and BASIC source code had been staged to my web page.

I have been reminded that this code covers the Model 100 and 102. The Keyer timing needs work but is useable for slower speeds.

Check out my web page for documentation and source. The documentation is about 10K html and the source is about 22k html. After retrieving them via your browser then you can save them as txt files for down loading to you Tandy via the Tandy utilities and your PC's terminal package.

Sam Billingsley AE4GX Atlanta (Buckhead), GA
<http://ae4gx.home.mindspring.com/>

Date: Tue, 29 Jun 1999 20:19:50 -0400
From: Luke Stras <stras@ecf.utoronto.ca>
To: qrp-l@lehigh.edu
Subject: [43823] ARRL Periodical CD-ROMs
Message-ID: <Pine.SGI.3.96.990629201715.5256A-100000@skule.ecf>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Has anyone experienced any success with getting the ARRL periodicals CD-ROMs (the QST/QEX/NCJ CD in particular) to work under anything except Windows? I would love to have it run under Linux, but a web search has turned up absolutely no useful information.

73 de VA3LNS

--
Luke Stras stras@ecf.toronto.edu
"God, root, what is difference?" -- Pitr

Date: Tue, 29 Jun 1999 20:33:28 -0400
From: "Don Chisholm WX3M" <dchishol@oakland.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [43824] field day lessons
Message-ID: <013701bec290\$2cd6b3e0\$82f80718@roalok1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

lessons learned:

- screenhouse under 20'x20' canopy are ok for station, but a camper would be nicer in the rain
- doughnuts are nature's perfect food
- operating all night leaves no time for battery charging (we shut down for a few hours last year to charge the batteries when the band folded).

Therefore, it

will die in the heat of the morning east-coast runs and your radio, DSP, and computer will all be unhappy

- free, hand-me-down tents that were only ever used once then stored in the attic were done so because they leaked when it rained (WB8E's air mattress was "floating")
- operators who choose to charge batteries while operating should really have considered some sort of DC filter (was it me, or were there a lot of 591 signals?)
- operating "through" early-morning thunderstorms can be interesting...
- the more coffee one drinks, the more coffee one must dispense...
- moths cannot determine the difference between a regular light source and a citronella candle (FOOM!)
- if your timing is accurate, you can work all three guys calling CQ on the same frequency at the same time and not have to repeat anything

74
don

Don Chisholm - WX3M
Oakland University - Department of Music, Theatre, and Dance
undergraduate - secondary instrumental music education
dchishol@oakland.edu
<http://www.oakland.edu/~dchishol/>

Date: Wed, 30 Jun 1999 00:51:29 GMT
From: n4js@pobox.com (John Sielke)
To: qrp-l@lehigh.edu
Subject: [43825] FD 99
Message-ID: <377b68c9.12967767@mail.snip.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Not a lot of time for FD, and conditions were lousy, but set up the K2 out on the trusty card table. Used my new solar panel from Electronics Goldmine, and the charge controller (MicroM+). Kept the internal battery on the K2 fully charged with no problem. Antenna was a "Gusher Zepp" (borrowed the name from the "Gusher dipole") made similar to the dipole of the same name, except feedline is 300 ohm twinlead, and I use my trusty ZM1 to tune it. Wish had had more time, but had birthday party for 5 year old grandson on Saturday afternoon, and had to go to work on Sunday afternoon.

One thing, tho...really convinced the K2 is THE rig! AND, I hadn't

even gotten the new firmware mod installed yet!

John L. Sielke n4js@pobox.com n4js@qsl.net
 NJ Grid:FM29LN <http://www.qsl.net/n4js>
 NJ-QRP #57 QRP-L #884 QRP-ARCI ARQrp #86
 G-QRP #9544 NorCal #1989 CQC AKQRP QCWA FISTS #2781

Date: 30 Jun 1999 01:03:00 +0100
From: r_buschner@KNUUT.de (Ralf K. Buschner)
To: QRP-L@lehigh.edu
Subject: [43826] Twinky paddle
Message-ID: <7JsA60knkEB@r_buschner.knuut.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

Hallo,

i bought a "Twinky" paddle (made by DK1WE) on the "Ham Radio" fair at the Bodensee lake (Friedrichshafen, Germany) last week, and i'll say, it's not less than great!

It's bottom is abt 65x40mm, and the weight is abt. 120 grams.
But it's main advantage: It hasn't the paddles left and right, these are
to press down as on a normal key! So it can't slide around the table and
you don't need to keep it with the other hand.

And it looks really great! I will try to make a photo and put it on my web page thwe next weeks.

73 de Ralf, d15mhk

Date: Tue, 29 Jun 1999 20:09:07 -0500
From: "Bob Reynolds" <breynold@SIGG.COM>
To: <qrp-1@lehigh.edu>, <n4js@pobox.com>
Subject: [43827] FD 99 -DON'T DO's
Message-ID: <99Jun29.201726cdt.155013@firewall.sigg.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

1. DO NOT marry a non-ham spouse with a birthday of June 22nd.
2. DO NOT get married on July 1st
3. DO NOT go to DISNEY WORLD with the family over FD weekend.

RATS - Red K5VOL

Date: Tue, 29 Jun 1999 21:18:05 EDT
From: K2UD@aol.com
To: qrp-1@lehigh.edu
Subject: [43828] Re: FD 99 -DON'T DO's
Message-ID: <e46b3f2f.24aaca4d@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

4. Don't have kids. They have the nasty habit of graduating during FD.

72

Howard Kraus, K2UD

Date: Tue, 29 Jun 1999 19:10:20 -0700
From: neil <neil@aade.com>
To: klhartman@lucent.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [43829] Re: MC34119
Message-ID: <37797C8C.40DEBD19@aade.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I used the MC34119P in a WWV receiver I used to sell as a kit until Plessey discontinued the ZN414 which was a prime ingredient.

The primary advantage of this chip is push-pull output which drives a floating speaker coil without a large coupling capacitor (DC coupled to speaker).

Just make sure to use a large decoupling capacitor for the power to eliminate motor boating (need to do this with the other chips as well).

--

Neil
<http://www.aade.com>
<mailto:neil@aade.com>
Almost All Digital Electronics
1412 Elm St. SE
Auburn, WA 98092
253-351-9316

Date: Tue, 29 Jun 1999 21:55:08 -0500
From: Jay Freeman <jayFreem@direcpc.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [43830] Ft-990 QRP
Message-ID: <3779870C.53D38219@direcpc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Howdy folks,

I learned today that my FT-990 (DC) is finally returning from it's 4 month vacation in California. I don't remember for sure how low the power will go, but I think its 10 watts. Does anyone know if there is an internal adjustment to bring the low end into QRP territory, or must I use the ALC method?

Thanks es 73,

Jay

--

* Jay Freeman - WT9S ARRL *
* G-QRP 10319 QRP-ARCI 9981 ARS 562 *
* SASS #18700 NRA Life *

Date: Tue, 29 Jun 1999 22:16:34 -0500
From: "Chuck Adams K5F0" <adams@ticnet.com>
To: qrp-1@lehigh.edu
Subject: [43831] Metal Working Advice Needed
Message-ID: <E10z911-0004xP-00@pop3.ticnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Gang,

I have a piece of steel about 3"x4"x1/2"
and I need to drill 4 holes about 1/8" in
diameter.

Having never done this before I thought I'd
ask before experimenting. I have a 5 speed
drill press, so do I go with fast or slow?

Heavy pressure or light on the drill? Oil
lub'd to reduce friction, heat etc.

I WILL be using safety goggles JIC (just in
case) and all other safety precautions known
to mankind.....

I have a Brown Brothers yoke that I want to
mount on this piece to complete another paddle.

I have, of course, used the drill press before,
but usually on aluminum or brass. Never on
steel.

FYI es TIA

dit dit

Chuck Adams K5FO adams@ticnet.com <http://www.qsl.net/k5fo/>

Date: Tue, 29 Jun 1999 23:13:45 -0400
From: Howard D Rubin <n3fel@juno.com>
To: qrp-1@lehigh.edu
Subject: [43832] Collapsible antenna poles?
Message-ID: <19990629.231346.3998.1.n3fel@juno.com>

Where can I get a collapsable antenna pole like the ones used at Field Day?

While at Home Depot, I saw electrical conduit in incrementing sizes from 1/2" to 2" and wonder if anyone has attempted to build a collapsable system from scratch.

Please advise,
Howard, N3FEL

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Date: Tue, 29 Jun 1999 20:33:17 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Chuck Adams K5FO <adams@ticnet.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [43833] Re: Metal Working Advice Needed
Message-ID: <Pine.BSI.3.96.990629202811.17030B-100000@usr06.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Chuck,

Use a low speed, light pressure, and a good cutting oil. I just use used engine oil with my metalworking, but a good quality cutting oil is preferred.

Do not hold the piece with your hands. Use a drill press vise,

or clamp the piece down somehow. If the bit grabs, it can yank the work out of your hand and give you a nasty injury. I tried spot facing some PCB material the other day with a 3/32" end mill in a drill press at work, and ruined the piece when the flutes cut into the material. Ended up going home and using the end mill.

Chris

On Tue, 29 Jun 1999, Chuck Adams K5FO wrote:

```
>
> Gang,
>
> I have a piece of steel about 3"x4"x1/2"
> and I need to drill 4 holes about 1/8" in
> diameter.
>
> Having never done this before I thought I'd
> ask before experimenting. I have a 5 speed
> drill press, so do I go with fast or slow?
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> Heavy pressure or light on the drill? Oil
> lub'd to reduce friction, heat etc.
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> mount on this piece to complete another paddle.
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> but usually on aluminum or brass. Never on
> steel.
>
>
> FYI es TIA
>
> dit dit
>
>
> Chuck Adams K5FO adams@ticnet.com http://www.qsl.net/k5fo/
>
```

```
 /-----.
/  What's all this  \
/ extinct stuff, anyhow? /
```

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Tue, 29 Jun 1999 23:29:35 -0400
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [43834] Killer Tree Limb Wire/Rope Antenna Project (kinda long...sry)
Message-ID: <19990629.233102.-379499.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi everyone...

Hope everyone had a good DLN... I heard nuttin over heah...

I spent most of the afternoon putting up... actually re-positioning my two element 40mtr yagi... I was pointed right at alaska and now I am pointed at new mexico... the swr is flat for most of the band...and it seems to work fine...

HOWEVER, I HAVE NOTICED A TREND.... the two element yagi's want to flip or hang low on the coax side of the dowel... I have cured this by

(1) securing one side of the antenna with rope instead of another 14ft dowell... or with rope attached to one end of one dowel...but this requires an extra tree in the right place...

(2) by placing a rock of adequate weight in the center of the director and taping the sucker really good... also put rocks on the director ends of the dowels and that worked... I just don't feel too safe with rocks hanging overhead..... I lucked out... if mine fall they won't hurt anything... they just happened to be in the right spot to be out of the way...

(3) I can take some of the tension off the ropes and the dowels level

out...

(4) it also helps if I keep the rope bridle out of the tree limbs... the limbs tend to force one end down unless the bridle free...

Now to that "killer tree" that tried to get me again today... What's a cajun lad to do up heah in yankee tree land??? I had to reset the rope in my pulley today so I had to get under my "antenna tree" to lower and raise the rope holding the pulley... I new their was a big branch that was BROKE BUT Holding on to this tree at the top... I was listening and watching while I hauled the rope up... well low and behinds, didn't I hear sumthin like a tree limb looking for the ground...

U beginners note: I had three escape paths in mind before I began this and as I decided on one of the three... based on the noise in the tree... I looked up... as I was doing the cajun three step... to confirm I was getting outta the way... mazing how fast a really tired cajun lad can move when motivated...

U kneaux that tree limb hit (business end first) about 3 foots (at the most) from where I was standing...The top of it would have hit me had I not moved... I tell u... this qrp thing... maybe I better stick with a Dummy Load...for an antenna ... :-)

Joel KE1LA

In Maine

trying to keep my cajun mama from cutten down that tree...

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Date: Tue, 29 Jun 1999 23:27:33 EDT

From: n5ib@juno.com

To: qrp-1@Lehigh.edu

Subject: [43835] Cabinetry

Message-ID: <19990629.211932.10311.0.N5IB@juno.com>

In regard to Jim's question.....

I've built three rigs in the past 6 months - A Herring Aid from NorCal's Back to the Future series (on 30 m), a 38 Special, and a DSW40

Chose to put each in a small wood recipe box that I picked up at a craft store. Several (5 or 6) coats of clear satin wood finish (waterborne) and then paste wax. For shielding, the box is lined with copper foil tape that has conductive adhesive (McMaster Carr item) and the panel is 2-sided PCB stock. I cut a small rabbet in the rim of the box so that the panel can be inset slightly, then fold the foil tape over the rabbet so it contacts the back side copper of the panel. The shielding seems pretty good, I have to tightly couple the wire from my marker generator in order

to hear a signal when the box is all closed up.

I've had no apparent trouble with internally generated heat, (though seldom operate for more than an hour or so at a stretch) and have a notion that the wood actually aids as insulation for external heat sources (i.e. Old Sol). I build 'em with all controls and connectors on the panel, so when closed there are no protrusions that give away that its a radio. Thought about cutting vent holes in the bottom and using small rubber feet to give some air space, but have opted to leave the bottom solid. Just use little felt pads on the bottom to cover the countersunk screws so as not to scratch the mantle where the rigs are displayed.

How many of you can say that your spouse (well OK, mine is WD5CMA) allows your ham rig to be displayed on the mantle ?? :^)

Have a DS20, a GM30, and a ZM2 waiting to get built and plan the same scheme for all - even the ZM2 that comes with a case. Biggest problems: really need a brass nameplate on each box to tell 'em apart when they're all closed up - and end up having to make custom-length spacers to attach the panel to the bottom of the box (cut, drill, and 4-40 tap 1/4" Al rod)

If I can find some free time to start my QSL . net web page, I'll put some pictures up...

72

Jim N5IB

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Date: Tue, 29 Jun 1999 23:43:26 -0400
From: "curt" <k3ivb@stargate.net>
To: <ctrask@primenet.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [43836] Re: Metal Working Advice Needed
Message-ID: <001901bec2aa\$bc84c800\$54b8a6d1@Curtk>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

You can only spot face with a center ground end mill, if it was not CG,

that's the reason it broke, not the lack of oil :-)

YES I agree --(NEVER USE HANDS AS VISE)

----- Original Message -----

From: Chris Trask <ctrask@primenet.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Tuesday, June 29, 1999 11:33 PM

Subject: Re: Metal Working Advice Needed

>
> Chuck,
> Use a low speed, light pressure, and a good cutting oil. I
> just use used engine oil with my metalworking, but a good quality
> cutting oil is preferred.
>
> Do not hold the piece with your hands. Use a drill press vise,
> or clamp the piece down somehow. If the bit graps, it can yank the work
> out of your hand and give you a nasty injury. I tried spot facing some
> PCB material the other day with a 3/32" end mill in a drill press at work,
> and ruined the piece when the flutes cut into the material. Ended up
> going home and using the end mill.
>
> Chris
>
> On Tue, 29 Jun 1999, Chuck Adams K5FO wrote:
>
> >
> > Gang,
> >
> > I have a piece of steel about 3"x4"x1/2"
> > and I need to drill 4 holes about 1/8" in
> > diameter.
> >
> > Having never done this before I thought I'd
> > ask before experimenting. I have a 5 speed
> > drill press, so do I go with fast or slow?
> >
> > Heavy pressure or light on the drill? Oil
> > lub'd to reduce friction, heat etc.
> >
> > I WILL be using safety goggles JIC (just in
> > case) and all other safety precautions known
> > to mankind.....
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> > I have a Brown Brothers yoke that I want to
> > mount on this piece to complete another paddle.
> >
> > I have, of course, used the drill press before,
> > but usually on aluminum or brass. Never on
> > steel.
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> >
> > FYI es TIA
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> > dit dit
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> >
> > Chuck Adams K5FO adams@ticnet.com <http://www.qsl.net/k5fo/>
> >

```

>      ,-----,
>      /  What's all this  \
>      / extinct stuff, anyhow? \
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>      c__; c__; ' - . ' > . _ _

```

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Tue, 29 Jun 1999 20:46:24 PDT
From: lane cox <lanecox@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [43837] dBm
Message-ID: <19990630034625.69606.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I have a stupid question-Does the term dBm refer to volts or watts and does it have to be measured over a certain resistance? Thanks Lane Cox N6NLB

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Date: Wed, 30 Jun 1999 03:52:06 +0000
From: "Walter D. Amos" <waltk8cv@mpdr0.detroit.mi.ameritech.net>
To: Qrp-l Posts <qrp-l@lehigh.edu>
Subject: [43838] DUMMY ME !!
Message-ID: <37798656.78C77284@mailhost.det.ameritech.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I listened and listened but not a signal was heard on 7.040 under the 10
DB over S-9 RTTY CHERPER :-)

0 points
0 mulTs

= CAPTAIN ZERO !!

Contest whiz , faster than a speeding NERD ;-)

Wally Baloooooooooooooooooooo

Date: Wed, 30 Jun 1999 00:00:34 -0400
From: david fouchey <dafouchey@home.com>
To: lanecox@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43839] Re: dBm
Message-ID: <37799662.93C3BC68@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Decibels Referenced to One Milliwatt dBm: Typically in Telephone work the voltage one milliwatt of power dissipated in a 600 ohm load produces across the load is a 0 dBm signal. Similarly the Voltage produced across a 50 ohm load when dissipating 1 milliwatt is also 0 dBm. Most Audio/LF VM's are calibrated for a 600 or 900 ohm load. Most rf Voltmeters are predicated on measurements across a 50 ohm load.

Dave
WA4EMR

lane cox wrote:

>
> I have a stupid question-Does the term dBm refer to volts or watts and does
> it have to be measured over a certain resistance? Thanks Lane Cox N6NLB
>
>
> -----
> Get Free Email and Do More On The Web. Visit <http://www.msn.com>

Date: Tue, 29 Jun 1999 22:16:48 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-l@lehigh.edu
Subject: [43840] Solar Summary 6-29
Message-ID: <Pine.SUN.4.10.9906292140310.1129-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

With the exception of some geomagnetic disturbances from last thursdays CME (Coronal Mass Ejection), the bands were very good for FD. The 200 solar flux certainly made 10-15M excellent for skip propagation with low absorption for effective QRP work, as some early reports, such as from CQC, suggest. (i.e., a record breaker).

The sun is quite unusual right now. The solar flux peaked out a couple days ago at 207 and appears to be on it's normal 14-day downswing. And believe it or not, 200 is not all that great for an active sun, but plenty sufficient for hot bands above 10MHz.

What *is* usual is the sunspot count is very high, around 300, and very high solar wind (with low density). Usually, the solar flux more or less follows the sunspot number. Therefore, with a solar flux of 200, you'd expect the sunspot number to be around 200, +/- 30 or 40. Or to look at it the other way, with a sunspot number around 300, you'd expect the solar flux to be much higher than it is. This is the highest number of sunspots on the sun right now since 1957, or over several solar cycles. Some of

these sunspot regions are becoming quite magnetically complex, meaning they could be capable of some large M-class flares over the next few days or even a major X-class flare. Of particular interest is how the majority of the active regions are very close to the solar meridian ... that is, looking right smack at the earth (along the central meridians).

This means the sun *could* produce a dramatic flare or two over the next few days, and the earth would be in the trajectory of it's full effects. This could mean a solar storm, sudden super ionization of the E and F layers, and a couple of days later, major geomagnetic storming. And if the flares are major flares, this could cause dramatic aurora's, HF blackouts, and even disruptions to power systems. It would take a large X-class flare to cause the later. But any moderate M-class flare, say M.3 or larger, would cause aurora's and extreme HF conditions.

For you solar neophytes, look at the solar region summaries and their classifications. Right now, the active regions are classified as BETA groups, meaning complex, bipolar magnetic field lines running about the region - or capable of producing flares. Now watch for one of the regions to be upgraded to a DELTA group. This means the field lines gets very strong and compact, and often precedes a MAJOR flare. NOAA and others almost always issue a "Major Solar Flare Alert" when a DELTA group condition occurs.

Normal Solar Wind speed is around 350 km/sec, with a good shock wave pushing it upwards around 750 km/sec. Saturday-sunday, the solar wind rose to 900 km/sec, or the highest this solar cycle, though it is starting to decline around 800 km/sec. This high solar wind is pushing against our magnetic field causing the current active geomagnetic conditions. Any sudden changes right now could trigger a major geomagnetic storm. And should a flare occur in the next couple of days, it's shock wave could add to this already high solar wind velocity and cause a dramatic geomagnetic storm.

Now the purpose of this description is not to forecast the end of the world. It's still kinda like predicting the stock market or an earthquake. It's intended to describe what is happening on the sun right now, and what could happen and why ... and if the sun goes non-linear on us in the next few days, you'll know what happened and be amongst the most informed hams in the known universe. In other words, just a good excuse to provide a couple of lessons about solar behavior.

The sun *is* worth keeping an eye on (with proper filters!) over the next couple of days.

72, Paul NA5N

> JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

Graphics by Loek Frederiks

Date: Wed, 30 Jun 1999 00:14:23 -0400
From: jmarran@juno.com
To: qrp-1@lehigh.edu
Subject: [43842] TTL transceivers.....part 2
Message-ID: <19990630.001440.-126353.0.JMarran@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Many folks have said that the design is primarily a generic one. Dave Ingram of CQ magazine mentions that this particular design has been with us for many years. Anyway, I have made photo-copies of several TTL style rigs from numerous publications, dating back to 1983. I will be happy to either fax or mail any and all interested in this design.

It was this radio that gave me my first successful taste of "roll your own". Remember getting into QRP, where some hams said that you can't call CQ with low power? This rig maxes out at around 1/3 watt, but CQ's are easily answered. It helped me to earn my first 1000 Mile Per Watt Award.

73,

John KB2HSH
Buffalo, NY

Date: Wed, 30 Jun 1999 00:34:44 -0400
From: jmarran@juno.com
To: qrp-1@lehigh.edu
Subject: [43843] Working QRP with "non-standard" gear....
Message-ID: <19990630.003501.-126353.3.JMarran@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I just wrote to a local friend here in Buffalo about my Novice QRP

set-up. I built it from stuff that was lovingly given to me by my father and grandfather. In fact, I used this set-up after I upgraded to General. I still use my Ramsey QRP-40 transmitter with my Hammarlund HQ-170 receiver. The two seem like a very unlikely combo, but they work excellently together. The Ramsey has provisions for built in receiver muting, if the spirit moves you to run the receiver through the transmitter. The diode arrangement is good enough to keep RF out of the receiver circuitry. Or, you can run an antenna switch and kick it over manually. I entered numerous QRP contests with this gear, and in the 1997 Holiday Spirits HB Sprint I did fairly well.

Any one else with "unusual" stations?

John KB2HSH

Date: Tue, 29 Jun 1999 23:05:39 -0600
From: "Rod Cerkoney" <rwc@frii.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43844] Re: QRP Rigs for Sale
Message-ID: <001301bec2b6\$49dfe940\$948711d8@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Whoops minor correction/addition to the SWL-40+...A thousand pardon for the omission.

----- Original Message -----
From: Rod Cerkoney <rwc@frii.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Tuesday, June 29, 1999 7:22 AM
Subject: QRP Rigs for Sale

...

> SWL-40+ with RIT kit installed: 6mos. old & like new condition. I've made on
> Cap. mod to this RIG (per kit manual) and increased the tuning range to
> about 75kHz. (Std is about 35-40kHz). \$90 shipped CONUS

This radio is housed in the Small Wonder Labs Enclosure Kit.

> * * *
>
> NorCal 20, the Norcal club version. I've painted the case dark gray, the
...
SOLD!

72/3 Rod, NØRC
da di dah

Date: Wed, 30 Jun 1999 01:04:07 -0400
From: jmarran@juno.com
To: qrp-1@lehigh.edu
Subject: [43845] Kanga Kits for QRP
Message-ID: <19990630.010419.-126353.4.JMarran@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I was given a Kanga "OX0" kit by my ex for my birthday a few years back.
Just wanted to write to let my QRP friends here know about the ups and
the downs of this radio.

On the positive side: It's cheap, easy, puts out PLENTY of power (2-3
watts with a 4427 or a 3553), and goes together fast, the circuit board
is EXCELLENT foil plated.

On the NEGATIVE side: The oscillator runs constantly. This is a problem
for those of us who listen to the RX while we are keying, and for those
of us who like to listen when we are done (HIHI). A "kill" switch has to
be added to cut the power to the oscillator, but sometimes it interferes
with it in such a way that it is sluggish to start up again.

For \$12.00, it is an OK rig, but it's not the epitome of low cost
transmitters. Caveat Emptor!!!

73,

John Marranca, Jr KB2HSH

Date: Wed, 30 Jun 1999 01:21:02 -0400 (EDT)

For a 1/8 in. hole, speeds around 1000 rpm seem in order.
Vertical feed should be less than .002 in/revolution.

A cutting oil is in order. I think they are mostly to
remove some of the heat.

Hope this helps.

72/73,

John, K6QQ

Date: Tue, 29 Jun 1999 23:54:22 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-1@lehigh.edu
Subject: [43848] Propagation Primer 101
Message-ID: <Pine.SUN.4.10.9906292220481.1392-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
For those of you who seem hopelessly lost with all this solar and
propagation stuff, I will attempt a quick primer that will hopefully
help.

=====
We all know the sun goes through a solar cycle about every 11 years.
During the minimum, or QUIET SUN, there are few sunspots, the solar
flux is very low (<100), which means the sun's ionizing radiation is
quite low. As a result, our upper atmosphere, where the E and F layers
reside, are not well ionized. This means the E and F layers do not
reflect HF radio waves very well ... and most of your signals will pass
right on through to space to be picked up by Jodie Foster in the sequel
to "Contact." One measure of how well ionized our E and F layers are
is the MUF, or Maximum Usable Frequency. During the quiet sun, the MUF
is often below 15-18MHz. This is why 15M and 10M are "dead" during the
quiet sun, except for local (line-of-sight) communications.

However, during the solar maximum or ACTIVE SUN, there are many sunspots,
the solar flux is high, and this highly ionizes our ionosphere. This in
turn means our E and F layers become very reflective to HF signals.
Virtually all the power hitting the E and F layers will be reflected back
to Earth and Jodie Foster will hear nothing out in space. This high
reflectivity causes the MUF to rise, often to above 30MHz. And when

this occurs, 10M will be open all day long to support global communications by using "skip propagation" ... in that your signals are skipping (or being reflected) off the ionosphere back to earth.

OK ... now a couple of definitions:

SOLAR FLUX (SF) is a number that attempts to describe the total power output of the sun at radio wavelengths, which in turn helps describe the total ionizing power delivered to our ionosphere. The higher the SF, the more ionization, and the more reflective our ionosphere is to HF.

An SF <100 is fairly poor propagation, the MUF <15MHz

An SF >150 is fairly good propagation, the MUF >25MHz

A general rule of the thumb is 10M is open when the solar flux >150.

IONIZATION. The solar radiation reaching the Earth contains IONIZING radiation. This means the incoming solar radiation can rip electrons away from the oxygen molecules high in our atmosphere. So now you have all these "free electrons" roaming around that makes the upper atmosphere (or ionosphere) more dense. Now the mass or weight doesn't change, it's just denser. Think of a bunch of popcorn balls on a floor, and shooting a marble through the open spaces without hitting a popcorn ball. Likely, not hard to do. The marble represents your radio signal passing through to space. Now go out there and stomp those popcorn balls so a bunch of individual popcorn kernels are scattered all over the floor. The mass of the popcorn has not changed, but it is distributed to make the field more dense. Now try to shoot that marble across the floor without touching a piece of popcorn. Gonna be very hard to do. The marble, or your RF signal, does NOT pass on to space. In the real case, your RF signal strikes all these free electrons, and that is what reflects them back to earth ... DURING DAYLIGHT HOURS when ionization occurs.

Now the really amazing thing that happens in our ionosphere, is when the ionizing radiation from the sun goes away (night time), all these free electrons rejoin (or recombine) with their host molecules, making intact oxygen molecules again. In our example, this would be like watching all the popcorn kernels on the floor magically turning back into popcorn balls again. (Woah ... what have you been drinking?) Of course, this means RF signals will again pass through on to space and will not be reflected.

By the way ... when electrons are stripped away from oxygen, it turns the oxygen molecules into helium. Another way of measuring the extent of ionization is to measure the amount of helium in our upper atmosphere. This is usually done through optical spectral line equipment or launching high altitude instrument balloons. However, this is seldom done today since other means and satellite surveillance is far more superior for

measuring the extent of ionization.

This is why the higher bands, such as 15M and 10M, are open (that is, signals being reflected back to earth) during the DAYLIGHT HOURS, but these same bands go dead (no reflective propagation) nearly as soon as the sun sets - because the sun's ionizing radiation goes away.

This is also why these same bands tend to be completely dead during the quiet sun, because there is insufficient ionizing radiation to cause ionization for reflection. This is a phenomenon of the active sun, the period we are well into right now. And, during a quiet sun, the ionization can be so low, that the MUF drops below 14MHz at night, which is why even 20M can go dead at night. During an active sun, the MUF almost always remains above 15MHz even at night, which is why 20M often becomes a 'round-the-clock band during the active sun.

So what about 40M? Truth is, the solar cycle has virtually no effect on 40M or below. Propagation on 40M remains pretty much the same during the active sun as it does the quiet sun, because the MUF seldom drops below 10MHz. This is why 40M is the main nighttime band, year in and year out. Even with low ionization, the very long wavelengths of the lower frequencies will be reflected by the ionosphere. This would be like rolling a basketball through the popcorn balls ... while the high frequency RF (the marbles) pass through pretty easy, certainly the low frequencies (basketball) would not. Quiet sun or active sun.

The active sun DOES effect 40M in that absorption to RF can be very good to very bad, or very high noise levels from geomagnetic storms ... both due to solar flare activity that occurs only during an active sun. A large solar flare sends an extra dose of ionizing radiation to the Earth. This can raise the MUF to very high frequencies (>100MHz), but this radiation can also penetrate far into our atmosphere to ionize the lower D-layer. RF signals must pass through the D-layer on their way to the upper E and F layers, where the reflection occurs. The more ionized the D-layer is, the more collisions that will take place with your RF signal, absorbing or attenuating some of its power. Thus, high absorption to HF signals can occur during and after a solar flare. This would be like rolling that marble across the popcorn covered floor, which encounters so many collisions with the popcorn that the marble comes to a halt. Now that is total attenuation or absorption. Your poor little QRP signals just vanish on their way to the E and F layers!

80M signals are almost always highly or fully attenuated by the D-layer, and what "propagation" that occurs on 80M is actually by the signals traveling across the Earth's surface, or "ground wave" propagation. The wave front is confined between the Earth's surface and the D-layer, which causes attenuation to the power as it travels along the ground, skims the D-layer, and propagates through the dense atmosphere near

the surface. This is why QRP on 80M is challenging at best since the absorption rates are fairly high - day and night, quiet sun or active.

The other major effect to HF propagation during the active sun is geomagnetic storms. Very briefly, this is caused by a shock wave from a solar flare hitting the Earth's magnetic field, causing it to compress and wiggle for awhile. And while it's wiggling, it's generating huge electrical currents, which in turn creates gobs of noise on HF. I'll present geomagnetic storms in another lesson.

SUMMARY:

BAND	THE QUIET SUN	THE ACTIVE SUN
80M	Seldom has skip propagation	Seldom has skip propagation
40M	Open around the clock	Open around the clock
30M	Open daylight hours	Open around the clock
20M	Open daylight hours	Open around the clock (usually)
15M	Dead - no skip propagation	Open - daylight hours only
10M	Dead - no skip propagation	Open - daylight hours only

If you have questions about the above, I suggest you pose them on qrp-l so I and others can answer them for the benefit of all those interested.

72, Paul NA5N

PS - I do not, however, fully understand the effects of the solar cycle on dummy load operations, the effects on drilling steel, how it effects the NC-20 AGC, or that Canadian Bouquet thing. :-)

Date: Tue, 29 Jun 1999 23:31:13 -0700
From: Russ Dow <n7dw@garlic.com>
To: n3fel@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43849] Re: Collapsible antenna poles?
Message-ID: <3779B9B1.648DCE52@garlic.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Howard and the list --

Collapsible masts (sometimes called push-up masts) can be purchased in various lengths, from two to four 10-foot sections yielding about 19 to 36 feet overall height. One common source in the U.S. is Radio Shack. Also many hardware and building supply stores carry them. They might not be on display, so if you don't see them, ask.

I have a homebrew, 2-section push-up mast made from thin wall electrical conduit just like you probably saw at Home Depot. A local ham who is good with metals built it for me. Two nested 8-foot sections, with a foot of overlap resulting in a 15 foot mast. I use this for mountain-topping with my 6 meter yagi when I get a chance. I thought about adding a third upper section, but it would be a lot more unwieldy to erect on site alone with a yagi on top and cable dangling down.

Either way you choose to go, have fun -- and be careful!

72,

Russ Dow N7DW

Howard D Rubin wrote:

> Where can I get a collapsable antenna pole like the ones used at Field
> Day?
>
> While at Home Depot, I saw electrical conduit in incrementing sizes from
> 1/2" to 2" and wonder if anyone has attempted to build a collapsable
> system from scratch.
>
> Please advise,
> Howard, N3FEL
>
> -----
> Get the Internet just the way you want it.
> Free software, free e-mail, and free Internet access for a month!
> Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Wed, 30 Jun 1999 00:26:17 -0700
From: "Bill Todd" <bill@willapabay.org>
To: <ARDUJENSKI@aol.com>

Cc: <nwq-1@scn.org>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [43850] NW QRP CLub Field Day
Message-ID: <000401bec2c9\$d8d36420\$92added1@bill>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>BILL,
>How did the FD ops go?
>
>Alan KB7MBI

Hi Alan (& NWQ-L & QRP-L)-

Field Day went pretty well here in Bay Center, but I have not totaled up the score yet. Kathy and I had Brian, K7QF and his wife stay over Sunday night, and we also had Bill, N7MOB stay over until Tuesday morning.

To complicate matters even further, my 22 year old son Philip (who I have not seen for almost 7 years) surprised me by announcing that he was coming to our house for a 2 week visit! WOW! I picked Philip up at the SeaTac Airport on Sunday morning and got back just after the rest of the crew took down all the antennas - darn I missed it.....(yeah, right).

Last year we only had 4 operators, and one visitor. This year, we must have had at least 8 operators, a couple of visitors, and one other visitor who hung around most of the day on Saturday, helping us erect last minute antennas.

I am pretty sure that this "special" visitor (David) is going to get his Novice or Tech ticket pretty soon...then I will not be the only ham in Bay Center.

Our operation was focused on FUN, and not contesting. Sometimes, only one operator would be on 20 meter CW, while the other 7 guys would be chatting or fiddling with an antenna or two.

Jim, WA7OM (formerly N7TCZ), built the "Field Day Special" via W7EL, and it worked surprisingly well on 20 meters. I had planned to also try out my 20 meter Bobtail Curtain, and switch back and forth, but I could not get the SWR lower than about 4 to 1. We decided to use Jim's antenna instead. Later, I discovered that the vari-cap was shorted out against the coil inside the elevated matching network of my Bobtail - thus the poor loading.

Bill, N7MOB put up his all-in-one inverted vee that we used mostly on 15 and 40 meters, and I erected a 80 meter dipole which seemed to work pretty well for that band. The 250 foot Inverted "L" for 160 meters was a total loser,

so we didn't even operate on that band.

One of the new operators brought his 6 meter rig, so myself and a couple of other people put together my 5 element 6 meter Yagi. Then we discovered that we did NOT have a mast to put it on!! The problem was solved by a trusty fishing pole and 2 oz. weight. A line was cast over a tree branch that was about 60 feet up, and then we tied a line on the Yagi, and hoisted it up to a height of maybe 50 feet.

We aimed the Yagi with two other lines that fell from each side of the last director element. Our 6 meter op managed to work about 5 stations this way. Great fun!

We didn't get around to copying the W1AW message, pass traffic, or do any satellite QSO's. Maybe next year we will get real "serious" and remember to do it (ha ha).

My wife Kathy made her famous Oyster stew, and everyone walked over to my house eventually to get their fill (except for me, as I don't like Oysters...no kidding). I had a hamburger.

It will probably be the weekend before I get our score totaled up, and I will be sure to report it on the NWQ-L and QRP-L.

PS I worked the Colorado QRP Club (W0CQC) on 20 meters Saturday evening, and they told me that they were using a multi-element yagi at about 90 feet on a mountain that was 9000 feet up!! I told the other op that our antenna was 2 elements and that it was 30 feet up, and about 30 feet above sea level. I then said that our antenna would take less time to take down . . .so there! (ha ha).

CUL, Bill-N7MFB
NW QRP Club

Date: Wed, 30 Jun 1999 00:23:48 -0700 (PDT)
From: David Matthews <vk2kfa@yahoo.com>
To: qrp-l@Lehigh.EDU
Subject: [43851] QRP-L CDRom now available in VK/ZL land
Message-ID: <19990630072348.26729.rocketmail@web210.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Folks,

The QRP-L CDRom is now available in Australia & NZ. If any Aussie/Kiwi amateurs want a copy you

can go either

Route A - you send me ...

- . your blank CDROM
- . your CDROM mailer
- . your return address,

and I'll burn and return same, or

Route B - you send me ...

- . AUS\$10
- . your return address,

and I'll burn and return a new one for you.

Email me first (vk2kfa@yahoo.com) and let me know which route you're going ...

Thanks,

Do You Yahoo!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Tue, 29 Jun 1999 09:18:07 -0400
From: Joseph Mikuckis <k3chp@erols.com>
To: qrp-1@Lehigh.EDU
Subject: [43852] FD from MD
Message-ID: <3778C78F.2777@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I was all set to go out for blood on this Field Day; however, the incredible humidity and heat (94 degrees F in my shack) quickly changed my mind. So I ended up with 79 QSOs. But it was fun! I also had a chance to test my new six-meter "Q Stick" vertical. The antenna works and I made eight contacts with TX, MO, AR and MI. The primary rig ws good old QRP+ and also PC-9000 for six meters, both powered by a battery.

I may be getting too old for this Field Day stuff and better stick to QRP contests when the climate is more suitable for human habitation but plan to be in the QRP ARCI Summer Homebrew Sprint with my Sierra and HW-8 since this contest lasts only four hours.

73 de Joe, K3CHP

Riverdale, MD

Date: Wed, 30 Jun 1999 05:30:59 -0500
From: "Nick Kennedy" <nkennedy@cswnet.com>
To: "QRP List" <QRP-L@Lehigh.EDU>, <K2UD@aol.com>
Subject: [43853] Re: FD 99 -DON'T DO's
Message-ID: <003301bec2e3\$a5d1afe0\$5a7154d8@big>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>4. Don't have kids. They have the nasty habit of graduating during FD.

>

>72

>

>Howard Kraus, K2UD

>

5. SS don't do. I got married on the first weekend of November. My log for 1976 CW SS shows about 6 QSOs and the note: "Got married yesterday."

Nick, WA5BDU

Date: Wed, 30 Jun 1999 06:38:31 -0400
From: Michael Bower <bowerm@ix.netcom.com>
To: qrp-l@lehigh.edu
Subject: [43854] Re: DUMMY ME !!
Message-ID: <3779F3A7.52A290D@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ooh, I think I may be near the top as well. I'm multi-op, multi-NON-transmitter (since this was not in the novice band (i know, I know, don't raz me<g>), I had to use a NON-transmitter for last nights

contest. I was also multi-op as at least 3 people said "What in the world are you listening to?" so they must have heard it as well. (See, I wasn't hearing/non-hearing things.) Even Sam, the mutt, was paying attention. Is that another op?

Where's my certificate??????? I'm ready to put a authenticated, authorized copy on ebay so I can become RICH. (No pun intended, Rich.)

Michael - N4NMR

Bob Patten wrote:

```
>
> On Wed, 30 Jun 1999, Walter D. Amos wrote:
> >
> > 0 points
> > 0 mulTs
> >
> > = CAPTAIN ZERO !!
> >
> Looks like we're tied for first place so far. Oh, I forgot, we're
> probably in different categories - I'm multi-op, multi-transmitter. My
> second op (who copies no CW) heard nothing but sidetone...
>
>           73,
>
>           ' ' ' '
>           ( 0 0 )           Plantation, FL
> -----o00o-( )-o00-----
>
>           E-Mail: n4bp@bc.seflin.org
>           Web Page: http://wg104a.wh.uni-stuttgart.de/~n4bp
>           Brass Pounder BBS: (954) 472-7715
```

```
-----
Date: Wed, 30 Jun 1999 05:39:14 -0500
From: "Nick Kennedy" <nkennedy@cswnet.com>
To: "QRP List" <QRP-L@Lehigh.EDU>, <lanecox@hotmail.com>
Subject: [43855] Re: dBm
Message-ID: <004c01bec2e4$ccf51b60$5a7154d8@big>
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit
```

Since dB is based on the ratio of two power levels, you can't describe the power in a single signal in dB unless you say what power level you are using

for a reference. So dBm is the dBm referenced to 1 milliwatt. For example, 1 watt would be 30 dBm and 0.1 milliwatt would be -10 dBm.

I don't guess it would have to be at a certain resistance, but I think it's usually (or often) applied in systems where there's an assumed resistance, like 50 or 600 ohms.

72,

Nick, WA5BDU

>

>I have a stupid question-Does the term dBm refer to volts or watts and does
>it have to be measured over a certain resistance? Thanks Lane Cox N6NLB

>

>

>

>-----
>Get Free Email and Do More On The Web. Visit <http://www.msn.com>

>

Date: Wed, 30 Jun 1999 05:41:51 -0500

From: "Nick Kennedy" <nkennedy@cswnet.com>

To: "QRP List" <QRP-L@Lehigh.EDU>, <waltk8cv@mpdr0.detroit.mi.ameritech.net>

Subject: [43856] Re: DUMMY ME !!

Message-ID: <005101bec2e5\$2a7d32e0\$5a7154d8@big>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

I listened some too. 40 meters was full of QRN, and like you said, 7040 had lots of digital and other stuff.

Maybe the dummy load thing was too ambitious a handicap and we should start with something simple like "indoor antenna night" or "20 ft of wire night".

72,

Nick, WA5BDU

>I listened and listened but not a signal was heard on 7.040 under the 10
>DB over S-9 RTTY CHERPER :-)

>
>0 points
>0 mults
>
>= CAPTAIN ZERO !!
>
>Contest whiz , faster than a speeding NERD ;-)
>
>Wally Baloooooooooooooooooooo
>

Date: Wed, 30 Jun 1999 06:43:23 -0400
From: Michael Bower <bowerm@ix.netcom.com>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [43857] comments on MFJ Portable Antenna 1621?
Message-ID: <3779F4CB.13ABCFBC@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Any used this item? Is it ok? (I know it's not great but better than sliced bread.)

Michael - N4NMR

Date: Wed, 30 Jun 1999 06:47:26 -0400
From: Michael Bower <bowerm@ix.netcom.com>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [43858] rig for novice then general
Message-ID: <3779F5BE.1F203265@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Right now I am still going to have to operate in the Novice bands.

Is there a QRP rig (pre-built or kit) that I can get in the Novice bands and work now then convert (easily) to the general bands?

(If I get a mono-bander, I would probably head for a 40 meter rig.)

TIA

Michael - N4NMR

Date: Wed, 30 Jun 1999 07:26:17 -0400
From: Joe L Blackwell <aa4nn@juno.com>
To: bowerm@ix.netcom.com
Cc: qrp-1@Lehigh.EDU
Subject: [43859] Re: rig for novice then general
Message-ID: <19990630.072629.-588679.2.AA4NN@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Wed, 30 Jun 1999 06:47:26 -0400 Michael Bower <bowerm@ix.netcom.com>
writes:

>Right now I am still going to have to operate in the Novice bands.
>Is there a QRP rig (pre-built or kit) that I can get in the Novice
>bands
>and work now then convert (easily) to the general bands?
>If I get a mono-bander, I would probably head for a 40 meter rig.)
>TIA
>Michael - N4NMR

The Ten-Tec 40 meter QRP kit will let you change freq of operation
very easily. Joe Blackwell - AA4NN

Vy 73, de Joe AA4NN
Eastern Top Band ARC, Carolina DX Association, Carolina CW Ops,
Fairfield County Contesters, ex K5GFN, Jonesboro/Springhill, LA.
Radios are all Ten-Tec, mode is CW only.
eeetet ee

Date: Wed, 30 Jun 1999 07:33:09 EDT
From: w4pj@w4bkx.ampr.org
To: qrp-1@lehigh.edu
Subject: [43860] Re: Metalworking advice
Message-ID: <79910@w4bkx.ampr.org>

Depending on what type of steel, choose the correct type of drill bit.
For stainless, I'd recommend a Nickel bit.
For carbon steel, cobalt.
(yup, go slow... generous with oil... clamp securely)

de (Scott) W4PJ

Date: Wed, 30 Jun 1999 06:41:27 -0500
From: Jeff Davis <jeff@jehosophat.com>
To: Michael Bower <bowerm@ix.netcom.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43861] Re: rig for novice then general
Message-ID: <19990630064127.A4617@jehosophat.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Quoting Michael Bower (bowerm@ix.netcom.com) [990630 06:47]:
> Right now I am still going to have to operate in the Novice bands.
> Is there a QRP rig (pre-built or kit) that I can get in the Novice bands
> and work now then convert (easily) to the general bands?
> (If I get a mono-bander, I would probably head for a 40 meter rig.)

Michael,

I'd suggest you look at the DSW-40 being offered by Small Wonder Labs.
It is the only mono-band kit I have found that covers from 7.000 to
7.150 without modification.

Most other mono-band kits cover only 60 or 70kc of the band--which means you
would have to modify it later if you build it for the Novice band now and
want coverage down around 7040 (and below) later. In most cases that
requires rewinding some toroids and/or changing a parts value.

The DSW-40 has a built-in keyer and an audio frequency annunciator. Those
features seem to be add-on options in most similar kits. It runs about 2
watts out, is easy to build and is battery friendly.

I think you will find the price attractive too!

<http://www.smallwonderlabs.com/>

--
72 de Jeff, N9AVG
QRP-L #1640
QRP ARCI #9756
NorCal #2891

Date: Wed, 30 Jun 1999 07:51:33 -0400

From: "dor" <elbc@pivot.net>
To: <n3fel@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43862] Re: Collapsible antenna poles?
Message-ID: <001d01bec2ee\$e7959ee0\$4f10a1d0@mine1>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Howard,
the problem with electrical conduit is two fold.
1. it is made to be able to bend, the 1/2 size bends quite easily and would have to be guyed quite well if you attempt to put much of any load on it.

2. the stuff will rust quite quickly also .

just my two cents worth, depending upon the height and amount of weight you intend you support I think a fiberglass painters pole might be a better choice. I've seen them @ home Depot and other paint outlets as long as 22 feet.

73 ,
Dave Kc1di

----- Original Message -----

From: Howard D Rubin <n3fel@juno.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Tuesday, June 29, 1999 11:13 PM
Subject: Collapsible antenna poles?

> Where can I get a collapsable antenna pole like the ones used at Field
> Day?
>
> While at Home Depot, I saw electrical conduit in incrementing sizes from
> 1/2" to 2" and wonder if anyone has attempted to build a collapsable
> system from scratch.
>
> Please advise,
> Howard, N3FEL
>
> -----
> Get the Internet just the way you want it.
> Free software, free e-mail, and free Internet access for a month!
> Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.
>

Date: Wed, 30 Jun 1999 07:55:06 +0000
From: Michael Neverdosky <MichaelN@cycat.com>
To: qrp-l mailing list <qrp-l@Lehigh.edu>
Subject: [43863] Re: Killer Tree Limb Wire/Rope Antenna Project (ki
Message-ID: <3779BF4A.872B0053@cycat.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Some of us (with the right equipment, and practise) just rope up, climb
the
tree and remove those dead and broken limbs before hanging our antennas up
there.

If the offending limbs are 20' or less from the ground I just use my pole
saw/pruner.

It is also a lot easier to get the antennas into a well trimmed tree. :-))

Trees are another reason to have more toys (tools). :-))

michael N6CHV

hamjoel@juno.com wrote:

> U kneaux that tree limb hit (business end first) about 3 foots (at the
> most) from where I was standing...The top of it would have hit me had I
> not moved...

Date: Wed, 30 Jun 1999 07:56:12 -0400
From: mikemo@ibm.net
To: qrp-l <qrp-l@lehigh.edu>
Subject: [43864] DLN
Message-ID: <377A05DC.4FDE1C0A@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I listened WITH my antenna, and heard no dummies. Oh well, I guess we
proved that perhaps those stories are a bit "inflated".
72 de ku4qo, Mike Maiorana, Palm Harbor, FL

Date: Wed, 30 Jun 1999 07:02:35 -0500
From: George F Franklin <w0av@juno.com>
To: elbc@pivot.net
Cc: qrp-1@Lehigh.EDU
Subject: [43865] Re: Collapsible antenna poles?
Message-ID: <19990630.070236.-142233.1.w0av@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Howard and Gang,

I have had great success with so-called surveyors poles which are collapsible, calibrated in feet/inches, and quite expensive if purchased new. I was able to borrow 26 ft. and 41 ft. versions, both of which telescope to less than 6 feet and are therefore easily transportable in a vehicle.

They seem to be made of fiberglass and are quite light weight. If used to support wire antennas, they can be guyed with nylon cord.

If you can find a local surveyor, you may be able to pick up used poles quite inexpensively, especially if the markings are worn off and hard for the surveyors to see.

72 de George/W0AV

Date: Wed, 30 Jun 1999 08:18:05 -0400
From: "Art Marshall" <artm@t-com.com>
To: <qrp-1@lehigh.edu>
Subject: [43866] NFL
Message-ID: <000501bec2f2\$9b41af80\$adc80ac0@pc-art.t-com.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hiya.....

CAn anyone tell me if there is a QRP group in NFL (Northern Florida).
Jacksonville and west into the Florida panhandle ??

tk's, 73 Art w1fji

Date: Wed, 30 Jun 1999 07:22:18 -0500
From: "Chuck Carpenter" <w5usj@globeco.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [43867] Jan DL night
Message-ID: <3.0.2.32.19990630072218.006c96e8@bosshog.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Dummy QRP-Lers,

I also didn't hear any of the many LOW SWR stations out there. I used my regular ant for listening. My high-quality high-power precision dummy load is very well shielded and leakage is nearly zero.

In the upper 48 this would be an event for January. I'd suggest a revision to the guidelines:

Home brew dummy loads of suitable power and load value and connected to not more than 25 ft of transmission line. Resistors, carbon rods connected with crocodile clips, and other such devices could qualify as proper dummy loads. You could even go back in time and use a knife switch as a means of using the DL to transmit and your regular ant to listen.
72/73 Chuck - W5USJ - EM22cv - Rains County - Point, TX

Date: Wed, 30 Jun 1999 08:24:36 -0400
From: Don Lefrancois <wb1cdh@cwix.com>
To: QRP-L <QRP-L@Lehigh.edu>
Subject: [43868] RE: Propagation Primer 101
Message-ID: <002301bec2f3\$85d31fc0\$49493ea6@0302316260447626>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Many thanks to Paul Harden for the simple but effective Propagation Primer. It never ceases to amaze me how many people on the reflector take time out to help others.

Thanks a lot Paul

DON/Jewett City, Ct

=====

Amateur Radio---K 1 N N P

QRP-L #1778 NorCal #1518 NE #436

Jewett City, Ct. 06351

Date: Wed, 30 Jun 1999 07:29:23 -0500

From: "Joe Spencer" <KK5NA@quadj.com>

To: <n3fel@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [43869] Re: Collapsible antenna poles?

Message-ID: <063901bec2f4\$305f18e0\$54d132ce@vectra>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Hi Howard,

We used one of these homebrew push-ups on FD. We always have at least one waiting for an event. I use one permanently(almost) on my Ringo for 2M/440. Just 3 or 4 sections gradually smaller/larger and hose clamps to set the lengths. Works great!

73 Joe KK5NA

--Have Water Bottle-will lob it --

73 Joe KK5NA

To run from your demon is to have him pursue you.

It is better to meet him in his world, than to face him in yours!

Visit the RACC QRP Home Page at <http://www.k5rac.org>

----- Original Message -----

From: Howard D Rubin <n3fel@juno.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Tuesday, June 29, 1999 10:13 PM

Subject: Collapsible antenna poles?

> Where can I get a collapsable antenna pole like the ones used at Field

> Day?

>

> While at Home Depot, I saw electrical conduit in incrementing sizes from

> 1/2" to 2" and wonder if anyone has attempted to build a collapsable

> system from scratch.
>
> Please advise,
> Howard, N3FEL
>
>

> Get the Internet just the way you want it.
> Free software, free e-mail, and free Internet access for a month!
> Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.
>

Date: Wed, 30 Jun 1999 05:32:59 -0700 (PDT)
From: Philip Karras <ke3fl@yahoo.com>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Subject: [43870] dimm bulbs of DLN
Message-ID: <19990630123259.2561.rocketmail@send205.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

You are the dimmest bulbs :)
Jim, K4CGY and I tried it as well & were un able to
make contact across maybe 10 miles.
We tried 5, 50, 100, and Jim had 150W as well, but no
go.

I was using a home brew multi-resistor dummy load I
call my
tea tin tuner (TTT) as well as a "radiating flexible
dummy load" I made for the 11 meter
HT. Neither radiated enough to be heard.

I sure did like the way the DL's reduced the noise as
well as all those superfluous signals :)

One thing tho' I don't think I've laughed so much
during an attempted or actual QSO in my life!
I hope you all had as much fun as we did just laughing
at the idea & trying it as well so
laughing at ourselves to boot.

72 & 73 de KE3FL
Phil

===

Phil K
home: ke3fl@juno.com
Alt: ke3fl@yahoo.com
Reflectors: ke3fl@arrl.net and ke3fl@qsl.net
Web: <http://www.qsl.net/ke3fl>

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Wed, 30 Jun 1999 08:31:49 -0400
From: "curt" <k3ivb@stargate.net>
To: "Chris Trask" <ctrask@primenet.com>
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43871] Re: Metal Working Advice Needed
Message-ID: <002601bec2f4\$87ab1ea0\$e1b8a6d1@Curtk>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

LET IT END HERE

----- Original Message -----
From: Chris Trask <ctrask@primenet.com>
To: curt <k3ivb@stargate.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Wednesday, June 30, 1999 12:18 AM
Subject: Re: Metal Working Advice Needed

> On Tue, 29 Jun 1999, curt wrote:
>
> > You can only spot face with a center ground end mill
> >
> Really? You don't say? And what, pray tell, led you to believe
> that I was using anything else but that?
>
> >

> Graphics by Loek Frederiks
>
>
>

Date: Wed, 30 Jun 1999 09:13:10 -0400
From: "Buck, Preston D" <BuckPD@corning.com>
To: "'qrp-1'" <qrp-1@Lehigh.EDU>
Subject: [43872] Re: Power line grounds
Message-ID: <9C472CF03C5ED111BBF20000F84A17010125BCA0@EAGLE.CORNING.COM>
Content-Return: allowed
Mime-Version: 1.0
Content-Type: text/plain

Greetings,

One of my professors described how he kept the battery charged on his 60s era VW beetle that had a bad generator. He had 20V AC on his ground. He inserted a diode rectifier to make it more effecient and used it to keep the battery charged up.

He also told us about the problem that dairy farmers would have with voltages on their grounds and how they would successfully sue the power company to fix it. It seems that milk cows don't like having their teats tickled electricity. I am not sure I would either.

So, I don't trust electrical grounds that much.

73,
Preston, n0g1m, Southern NY State

My words, not my employer's

Date: Wed, 30 Jun 1999 06:19:30 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: curt <k3ivb@stargate.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [43873] Re: Metal Working Advice Needed
Message-ID: <Pine.BSI.3.96.990630061542.23342B-100000@usr02.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 30 Jun 1999, curt wrote:

shots, depending on wind conditions.

72 - john - having a kick building K2 #194 !!!

Phinizy, William wrote:

>

> ..I have had good success with a baseball that has a screw eye stuck in it
> and fishing line or cord attached. But, boy, my arm has deteriorated
> from the days when I played centerfield for the base softball team!

-- John A. Evans, N0HJ -- jaevans@codenet.net

Date: Wed, 30 Jun 1999 09:37:26 -0400
From: Mark Sailer <msailer@msailer.rhic.bnl.gov>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [43875] DLN Scorecard
Message-ID: <377A1D96.83131BC7@msailer.rhic.bnl.gov>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Listened for about 3 hours while working on another computer.
Called CQ for 10 sec every 3 min into my dummyload laying out on the
lawn.

0 Heard (except myself - Does that count??)

0 Contacts

Total Score 0

--

Mark Sailer N2JTW
BNL- RHIC/RCF
516-344-7448

Date: Wed, 30 Jun 1999 09:56:13 -0400
From: John R Kirby <n3aaz-qrp@juno.com>
To: lanecox@hotmail.com, qrp-l@Lehigh.EDU
Subject: [43876] Re: dBm

Message-ID: <19990630.095625.-116901.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Lane and Others Interested

>>dBm<<

>d< deci, (0.1)

>B< Bell (Alexandor ?spelling? Gram Bell) a unit
use for expressing the logarithm of the ratio
between two power levels ($B = 10 \log (P1/P2)$) and
from a practical stand point Bell is too large,
hence...

>dB< deci Bell (one tenth of one Bell)

"dBm" (implied) a power term,
(implied to RF systems, 50 Ohm)
(implied to audio systems, 600 Ohm)

>0< zero (0.00)

>m< milli (0.001)

>0 dBm< a point of reference,
one milli Watt across 50 Ohms,
 $P = (E^2) / R$, (223.6 milli Volts
measured across 50 Ohms,
one milli Watt)

How can 0 dBm be expressde in a 75 Ohm system?

$E = (P / R)^{0.5}$ >> $^{0.5}$ (raised to the one half power) "is the square
root of" <<

$E = (0.001 \times 75)^{0.5}$

$E = 273.9$ milli Volts

What about 5 Watts?

$dBm = 10 \log (P1 / P2)$ >from above<

$dBm = 10 \times \log \text{ of } (5 / 0.001)$

$dBm = 10 \times \log \text{ of } (5000)$

$dBm = 10 \times 3.699$

$dBm = 37$

Five Watts is 37 deci Bell above a milli Watt
(and that is a fact),

but,
is that (37 dBm) in
a 50 Ohm system or
a 75 Ohm system (: > 0

John
N3AAZ
FM19xa

Get free e-mail you don't need Web access to use --
Or get full, reliable Internet access from Juno Web!
Download your free software today: <http://dl.www.juno.com/dynoget/tagh>.

Date: Wed, 30 Jun 1999 09:45:31 -0400
From: Paul Antoniewicz <pja@sofsol.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43877] HW-8 problems
Message-ID: <213E5C009DFFD111AF93006008BFAB8E1E9709@ssi12>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Greetings all,

I recently purchased an HW-8 xcvr. I found that there is a problem seemingly on the receive end. Seeing that I am not very electronically inclined and that I am hoping to take this with me on vacation, I was wondering if there was a place where I could send it to have it fixed? Any help would be greatly appreciated. Also please reply via personal email to save on bw.

Tnx es 73's

Paul KB9TNJ QRP-L#1903

Date: Wed, 30 Jun 1999 10:17:30 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [43878] TELESCOPIC MAST PLANS
Message-ID: <284ab44e.24ab80fa@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

If you visit the G3YCC site you will find unter ANTENNAS a topic called a A
RANDOM WIRE VERTICAL. The article has details for making a telescoping 33ft+
mast from aluminum tubing. One of the local hams (W7CD) built several of
these and there are are very nice and strong masts. For those that don't have
G3YCC's site bookmarked, here is the site for the topic:

<http://www.karoo.co.uk/g3ycc/rwv.htm>

Cheers...Alan KB7MBI

Date: Wed, 30 Jun 1999 10:35:31 -0400
From: Ken Newman <N2CQ@citnet.com>
To: epaqrp-l@lehigh.edu, QRP-L@lehigh.edu, njqrp@njqrp.org
Subject: [43879] Field Day: WQ2RP
Message-ID: <3.0.6.32.19990630103531.0085ebe0@mail.citnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Field Day OPs,

Look for our operation on FD (as well as many other stations) at:

<http://www.qsl.net/k4zol/guestbook/guestbook.html>

A great idea to post the FD soapbox info on the QRPARCI pages! (above).

72/73 de
Ken Newman - N2CQ
Woodbury, NJ

N2CQ@ARRL.NET

~~~NJ QRP Club Home Page ~~~  
<http://www.NJQRP.org>

~~~Club Callsign~~~  
WQ2RP

Date: Wed, 30 Jun 1999 10:34:13 -0400
From: "Art Marshall" <artm@t-com.com>
To: <qrp-l@lehigh.edu>
Subject: [43880] << DLN very long >>
Message-ID: <000f01bec305\$9f9d6de0\$adc80ac0@pc-art.t-com.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

What a big head I have this morning. Just typing on the keyboard hurts. I too got ready for DLN. I came home from the office, forgot to have dinner as I wanted to get everything ready. I made a tall gin and tonic over crushed ice and started to gather pencils and paper. Finished my gin and tonic and made a second one..... warmed up the radio, checked our my dummy load..... and checked to see that the keyer was ready.....

I sat down and made a few practice tests..... everything was a go..... hmmm.... Thought to myself... self I said..... I had better finish this gin and tonic and refill prior to the start of DLN..... I went out to the kitchen, couldn't find the short glass... but found the gin all ok..... poured the gin into the glass over ice, as by now I had run out of tonic water..... went back into the radio room and thought..... hmmm why not put this dummy load onna top of the tower.... great Idea.... found some coax and attached it to the dummy load..... came back in and realized I didn't have a tower.... or... could someone have stolen it..... things were a little fuzzy.... did I or did I not have a tower... wow just couldn't remember....

Noticed that my glass was empty, I found my way into the kitchen where I found the gin, and poured some into the glass..... next.... hmmm.... what was I going to do..... something about tower, dummy, I hunted around the house and the yard looking for now not only the tower but something about a dummy..... hmmm dummy what.... plug... dummy something..... Geeezzzz... the neighbors dog was barking, and It was getting cold..... Time was-a wasting.... it soon would be DLN and I wasn't ready.... panic came over me as I rushed around trying to locate everything I needed. I finished my glass, and filled it up with another two or four fingers of gin.

I think I made it back into the radio room, sat down, turned on the rig and listened. by joe I heard someone.... this DL sure is working, yep and there is another, and even more. I called, bango got him. something to write wit... where did I put it, where where it the darn pen, anything went, quite..... the stationed must have turned it over to me,, but who was it.

I listened some more then finally decided to transmit.... sent a question mark and signed my call there it was again, ah -ha ... I got... we exchanged reports and moved on. It went on like this most of the night ... call after call and section after section... ... after a few more re-fills of the ole glass, and contacts mounted. I had one heck of a time, must have worked over 300 stations, 22 sections and countless countries.....

This morning I woke up onna floor under the operating table, wow wat a loud ringing in my head, I must of had a great time, wat a contest. I looked all around the house for the logs, couldn't find them, nothing, where did they go. The only thing that was on the operating desk was a copy of the police report which read something about me walking around onna roof in my underware, looking for some dummy tower. Also a bill from the fire department, good grief When I backed out of the driveway this morning, I couldn't tell, but there were notes from my neighbors nailed to the front door..... I'll read them later.... WOW !!!!! must-a been one heck of a contest, WOW !!!!!..... lets do it again.....

73 Art

Date: Wed, 30 Jun 1999 09:38:59 -0500
From: "Chuck Carpenter" <w5usj@globeco.net>
To: n3aaz-qrp@juno.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [43881] Re: dBm
Message-ID: <3.0.2.32.19990630093859.0068ed00@bosshog.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

John et al,

Great explanation and delighted to see someone include a reference to the source of the Bell from our old friend, Alexander.

And your question about whether 5 Watts is 37 deci Bell above a mW in a 50 or 75 Ohm system is good too. Because you stated that the power is 5 Watts, I believe I know the answer. I hope those who know don't give it away so those who would like to figure it out can take a crack at it.

>5 Watts...
>is that (37 dBm) in
>a 50 Ohm system or
>a 75 Ohm system (: > 0

Also, nice to see someone properly capitalize the terms named for all those great electronics pioneers who came before us.

72/73 Chuck - W5USJ - EM22cv - Rains County - Point, TX

Date: Wed, 30 Jun 1999 10:42:04 -0400
From: "Dan Wolfe" <n4roa@mounet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [43882] Test
Message-ID: <01bec306\$b87136c0\$5e4c97ce@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Date: Wed, 30 Jun 1999 10:42:13 -0400
From: James Owen <owen@piper.eeel.nist.gov>
To: qrp-l@lehigh.edu
Subject: [43883] Re: dimm bulbs of DLN
Message-ID: <377A2CC5.A522BC3C@piper.eeel.nist.gov>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Philip Karras wrote:

> Jim, K4CGY and I tried it as well & were un able to
> make contact across maybe 10 miles.

Phil said it well but it's more like 5 miles.

> We tried 5, 50, 100, and Jim had 150W as well, but no
> go.

>
Well almost right--125 MAX

>
as well as a "radiating flexible
> dummy load" I made for the 11 meter

He didn't tell you that this is a real QRPp dummy load with a 1/2 watt resistor and that when he hit it with 50 watts it went POOF!

> HT. Neither radiated enough to be heard.

But I saw the smoke from the resistor--does this count?

You can say that again. It was a successful DLN, 1 non-contact. The ole Heathkit cantenna scores one.

>

72 Jim K4CGY qrp-l #72

Date: Wed, 30 Jun 1999 11:11:34 +0000
From: Michael Neverdosky <MichaelN@cycat.com>
To: qrp-l mailing list <qrp-l@Lehigh.edu>
Subject: [43884] Re: dBm
Message-ID: <3779ED56.8DBA468C@cycat.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Why does everybody have to get into the dead end of the impedance when talking about power?

dBm is a power, pure and simple.
It does not matter what the impedance is except when you want to know the voltage and current as well as the power.

Power is power and Ohm's law applies.

michael N6CHV

w5usj@globeco.net wrote:

> And your question about whether 5 Watts is 37 deci Bell above a mW in a 50
> or 75 Ohm system is good too.

Date: Wed, 30 Jun 1999 09:15:19 -0600 (CST)
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43885] Electronics problem (not QRP)
Message-ID: <Pine.OSF.4.05.9906300906130.22592-100000@duke.usask.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have an old colour TV. Last night when I went to turn it on the light indicating which channel is choosen came on briefly and then went out. I found that if I turned it off I could get it to consistently repeat this behaviour. Any ideas what is wrong?

There is more.

I decided to test the wall voltage just to see if the TV was getting properly feed. My DVM from CircuitTest measured 121VAC. Just on a whim I decided to test the frequency .3KHz (ie 300 Hz). I tried another plug. .06kHz (ie 60 Hz). Then I checked the dryer plug. One side of the 240V is 60 Hz and the other is 300Hz.

So I decided to try my Oscilloscope. (I have an old Tektronics 5??). Except for the phase difference I couldn't see any other difference between the two power sources.

Why would the DVM give such strange readings on one half of the house supply?

Brian.

```
+-----+
| Brian Buydens,          Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca      http://duke.usask.ca/~buydens |
| VE5RDV                                |
+-----+
| Do you have any dog shampoo that wasn't tested on animals?          |
+-----+
```

Date: Wed, 30 Jun 1999 11:16:32 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [43886] QRP AFIELD DATE?
Message-ID: <b0d81988.24ab8ed0@aol.com>
MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Has the date for the FALL QRP AFIELD been set?
Alan KB7MBI

Date: Wed, 30 Jun 1999 08:18:56 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43887] Jan DL night
Message-ID: <Pine.GS0.4.10.9906300812090.1265-1000000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Folks,

I entered as a 2 radio single op high priced devision....

FT1000MP running 35 mW into a Heath Cantenna and the 2nd radio
was a FT100 running 1W into a very high priced looking dry
dummy load made for UHF.

386 computer running TR Log set in the dualing CQ mode.

Force12 C4SXL at 85' and a DX77 at 30' both setting there
unused but ready if needed.....

0 QSOs.
0 Multis.

Total score = 0

Total money invested to be able to play in this contest:

I don't even want to think about it! :-)

Ron, KU7Y
Behind a new firewall in Nevada.....

Date: Wed, 30 Jun 1999 11:27:14 -0400
From: "Edward A Kwik jr" <eakwikjr@hti.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [43888] Re: FD 99 -DON'T DO's
Message-ID: <377A3752.29F6F79D@hti.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

5. Do not let the XYL go off to visit her relatives for 10 days and come back the Friday of the FD weekend and then have your 5th wedding anniversary Saturday, the next day. Only 36 QSO's.

Ed Kwik AB8DF

K2UD@aol.com wrote:

>
> 4. Don't have kids. They have the nasty habit of graduating during FD.
>
> 72
>
> Howard Kraus, K2UD

Date: Wed, 30 Jun 1999 11:32:33 EDT
From: Robsparks@aol.com
To: qrp-1@lehigh.edu
Subject: [43889] AR QRP 40m Net Tonight
Message-ID: <33305eb4.24ab9291@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

AR-QRP 40 m Net Wednesday Night

The AR-QRP 40 m net is tonight, Wednesday, at 0030Z (7:30 CDT) at 7.042 MHz. Bob, AB5ZD is NCS and will be calling "QST AR QRP NET de NQ5RP PSE QNI". At that time, please send your full call. When I copy it, I will return your call and AS (stand by) while more call in. When I have the list, I will start at the top and go down the list for reports and comments. If you are building a rig or trying a new antenna, tell us about it! This is a fun and informal net, and is a low hassle way to learn how to check into a net. You don't need to be a member of the AR-QRP Club to check in. We welcome new check-ins!

72,

Bob AB5ZD

Date: Wed, 30 Jun 1999 08:43:12 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: "QRP-L List" <qrp-l@Lehigh.EDU>
Subject: [43890] FD 99 with K2
Message-ID: <01bec30f\$42e963b0\$30a0b3d1@ham.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

This year the N6WG juggernaut competition team stormed up to our hill and set up in record time. This was the first year I have had the antennas, the operating tent and the equipment set up in plenty of time.

I used my K2 on 40 cw. Dwight, WA6NAE, and Dave, WA6BOY, used Dave's K2 on 20 cw. No problems on 40 cw, even though we had a 40m novice station and a 40m ssb station. They suffered a bit from me though (non-K2 rigs) :-)

Dave had a problem on 20 cw, in that his antenna was directly in front of our 20m ssb station's beam. Dave and Dwight were using a two-element half-square beam, and apparently didn't have enough backside rejection to keep the ssb out of the K2's front end. I had him try switching in the receiver attenuator, and with that he was able to make good contacts with some background signal still from the ssb station. Interestingly enough, Dwight's NC20 did not have the problem. I think that is due to a narrower front end with a dual toroid filter.

I only know the results for 40 cw so far. I operated with my teammate, Buck, W6HOR. We had a previous best of 230 QSOs on 40, and this year we blew right past it to 250. That just sets the bar higher for next year, though. Buck had not seen a K2 before, so we had a quick orientation and got right into the FD exchanges.

The stability really impressed Buck when we copied the ARRL FD message. We warmed up with the code practice session before the message, and then copied the FD message when it came out. I set the receiver on W1AW on 40m, and set the dial lock so we wouldn't bump it. For 45 minutes, out in the field, we noticed no change in pitch whatsoever.

We copied most of the time with speaker, using my acoustic filter speaker. Late at night, we switched to phones so that those who were sleeping wouldn't be trying to copy in their heads in their sleep :-).

Based on this FD, at the moment my two most wanted options are the internal ATU with Ant 1/Ant 2 switch, and the narrow cw filter, however it is finally achieved. The AF filter will also be welcome when it sees the light of day. Now, I have a van to unpack, and a shack to reassemble. It's taking a while, as I'm rethinking where everything goes, now that the K2 is taking over star billing from Ol' Kenwood, my TS-180.

Hope everyone had as great a time as we did. Give me a week to rest and clean up the gear, and I'll be ready to go do it again.
73, Bob N6WG

Date: Wed, 30 Jun 1999 15:44:42 +0000
From: wd8civ@att.net
To: qrp-l@lehigh.edu (QRP-L Mailing List)
Subject: [43891] Re: Electronics problem (not QRP)
Message-ID: <19990630154925.IVJQ1417@webmail.worldnet.att.net>

> I have an old colour TV. Last night when I went to turn it on the light
> indicating which channel is choosen came on briefly and then went out. I
> found that if I turned it off I could get it to consistently repeat this
> behaviour. Any ideas what is wrong?

Brian,

Some TVs have circuits that will prevent the set from powering up fully if some operating parameter (such as high DC voltage for the horizontal sweep) is out of limits. This is usually to prevent excessive X-ray emission.

OR

Some TVs (a lot of the G.E. models I worked on in the late 70s) use "scan-derived" power supplies for things like the IF and audio stages. "Scan Derived" means they tap some of the high-frequency energy in the horizontal sweep transformer, rectify it, and use it to power part of the set. (Sort of like taking some of your transmitter output, rectifying it, and using it to drive your sidetone.)

> I decided to test the wall voltage just to see if the TV was getting
> properly feed. My DVM from CircuitTest measured 121VAC.
> Just on a whim I decided to test the frequency .3KHz (ie 300 Hz).
> I tried another plug. .06kHz (ie 60 Hz). Then I checked the dryer plug.
> One side of the 240V is 60 Hz and the other is 300Hz.
>
> So I decided to try my Oscilloscope. (I have an old Tektronics 5??).
> Except for the phase difference I couldn't see any other difference
> between the two power sources.
>
> Why would the DVM give such strange readings on one half of the house
> supply?

Umm, because it's a DVM? (Grin) Depending on how the DVM detects the edges of the waveform (i.e. is there hysteresis?), it may detect small amounts of noise near the zero crossing, and count them just like regular cycles. My guess would be that there's some device on the one circuit that is injecting some noise onto the circuit. Maybe a computer, or a light dimmer. Computer switching power supplies are starting to cause even the power companies to have problems with noise.

Dave, WD8CIV

Date: Wed, 30 Jun 1999 16:03:01 +0000
From: Ed Loranger <we6w@qsl.net>
To: qrp-l@lehigh.edu
Cc: tomm@xata.com, n0bs@compaq.net
Subject: [43892] DLN Report -- WE6W
Message-ID: <377A3FB5.35C6@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Oh my goodness!

Good morning gang. I am as surprized as you probably are.

I landed 3 qso's last night. After initial contact, I pulled the load off and moved my ground wire to the red terminal of the ZM-2 balanced output and was able to tell each of my contacts that they had just heard me on my dummy load!

Blew their socks off.

Here's the story:

I ran a 33 foot ground wire counterpoise off of the BLACK (groundable) terminal of the ZM-2. I connected my 2 watt dummy load to the antenna terminal of the ZM-2 and grounded the wire with the switch on top of the zm-2.

After balancing the bridge (led goes out), I checked to see how warm the load got with 5 watts. It was warm but OK with the duty cycle of 00K. (on/off keying).

I then tuned across the band to see if I cud hear any stns. Nope. I called CQ for a bit at the start of the contest,

CQ DLN de WE6W/QDL. Nothing. (Note the humorous 'Q' signal :)
Nothing.

So I got to thinking, If the load is getting warm, perhaps I need to set up a reflection from the load? Then give this reflection somewhere to go?

So I moved the grounding switch away from 'GND' and floated my ground wire. The load remained connected the the ZM-2.

I then tuned the ATU to match the wire instead of the load. I first listened for noise as I tuned the ATU. I found a peak where I heard some signals. I then checked the SWR with my SWR/Power meter between the ATU and the radio. It was way-High (A technical term descriptor). I also found that my OHR-100 at 5 watts to that reflection had to be turned off and back on because it had latched in Transmit mode. I lowered the power to 3 watts and slightly mis-tuned the ATU some more until I got an SWR between 3 and 10:1. At this SWR level I was able to get back to 5 watts on the OHR-100 and transmit without locking the radio up.

I was now in business. I had sucessfully forced reflections from the 50 Ohm load to be absorbed and transmitted from the ground wire.

What a great learning experience!

I heard numerous stations calling. The only station I heard that was trying the DLN test was Alan/KB7MBI. I followed Alan around for 20 minutes and gave up. He just couldn't pick up my estimated 10 to 50 milliwatts radiated.

Then Wowzers! My buddy John, a regular on wsn-40 net came back to me. I then worked Mary in Sacramento with her new call and picked up my ol' buddy Ben. I called it a night with 20 minutes still left in the test.

LOG: WE6W

| TIME | CALL | Power from rig to 50 Ohm Load and floating Ground wire. |
|-----------|------------|---|
| 0135-0146 | K6KSR John | 3.1 Watts SWR:5 to 1 |
| 0200-0205 | NA6E Mary | 3.5 Watts SWR:3 to 1 |
| 0222-0235 | N6MX Ben | 4.5 Watts SWR:10 to 1 |

Best 72 to all and GL with your experiments!
Ed Loranger WE6W/QDL

--

-Ed AR Millennium Q's=>900/2000 QRP-L#1068
72, Ed WE6W, A-1 OP; <http://www.qsl.net/we6w> Santa Rosa, CA
QRP-Z#106 AR#112 HI-QRP#64 NC#2227 ARCI#9397 ARS#275

Date: Wed, 30 Jun 1999 08:04:38 -0800
From: Jim Larsen AL7FS <al7fs@pobox.alaska.net>
To: qrp-l@lehigh.edu
Subject: [43893] Re: Metal Working Advice Needed
Message-ID: <377A4016.5C991247@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I found this thread to be interesting and saved several of the replies.
I appreciate the occasional associated topic such as this. I am going
to be metal working to build a mobile mount for my screwdriver antenna
soon. And I will be using my QRP rigs through that antenna.

If a thread gets to anyone, filters do work, the point source of
irritation is gone and no post to QRP-L telling us the thread is too
long needs to be sent.

73, Jim Larsen, AL7FS <http://www.qsl.net/al7fs/>
Anchorage, Alaska
<mailto:al7fs@qsl.net>

Date: Wed, 30 Jun 1999 12:01:29 -0400
From: Chuck Ludinsky <cjl@mitre.org>
To: qrp-l@lehigh.edu
Subject: [43894] Re: FEEDING AN END FED 1/2 WAVE
Message-ID: <377A3F59.5213DFD8@mitre.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

On Tue, 29 Jun 1999 07:23:33, Goran Hosinsky, EA8YU, wrote:

> I seem to remember reading something about the need
> for using radials also with a 1/2 wave vertical. The
> ground loss could be the same as for a 1/4 wave
> vertical without radials, even though you are working
> at an high impedance level. Any comments?

and, Tue, 29 Jun 1999 13:50:38, Brad Bradfield, W5CGH, wrote:

> Contrary to popular belief (make that popular myth), even a half wave
> vertical requires radials for decent efficiency. You just can't get
> something for nothing.

Here are some quick figures from EZNEC for a half-wave vertical and a quarterwave vertical, each with one, four and eight radials (quarter wave), and for a dipole at 35 feet:

HALF WAVE:

| Radials | Max Gain(dBi) | @ | Elevation(Degrees) |
|---------|---------------|---|--------------------|
| ----- | ----- | | ----- |
| 1 | 0.32 | | 19 |
| 4 | 0.31 | | 19 |
| 8 | 0.40 | | 19 |

QUARTER WAVE:

| Radials | Max Gain(dBi) | @ | Elevation(Degrees) |
|---------|---------------|---|--------------------|
| ----- | ----- | | ----- |
| 1 | -0.95 | | 29 |
| 4 | -0.45 | | 26 |
| 8 | -0.37 | | 26 |

EZNEC shows a maximum gain for the horizontal dipole at 35 feet of 7.42 dBi at 28 degrees. At 19 degrees, the gain is 6.42 dBi. So the horizontal dipole has a 6+ dB advantage over the half-wave vertical at the lower 19 degree take-off angle.

Note, however, that the vertical is essentially omnidirectional; whereas the dipole shows about an 11 dB null off its axis. This means that the vertical has a 4.6 dB advantage at 19 degrees over the dipole in that direction.

Note also that the difference between one radial/counterpoise and four or eight is insignificant. Don't know what 128 radials would do, nor would I ever consider using them in a field situation.

Some additional notes: First, the figures are based on an NEC calculation with "medium, real ground"; one can argue (but I won't) that

they have/have not any relationship to reality. Second, one can support many different arguments from the figures. Yes, a dipole has a significantly greater gain than a vertical half-wave with only a few radials; however, what about the off-axis performance? What's important to you? Which is easier to erect in a given situation? If you want omni-directional behaviour, why not use an inverted-V (which comes close)? Etc., etc.

Any comments?

72 DE K1CL,
Chuck.

Date: Wed, 30 Jun 1999 09:08:35 -0700
From: "Arthur G. Silvers" <ags@ieee.org>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [43895] Re: FEEDING AN END FED 1/2 WAVE
Message-ID: <377A4103.C460F38E@ieee.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

Matching a 1/2 wave wire antenna at its end involves reducing the impedance at the antenna end of the transmission line. This can be done in several ways. You can use an antenna tuner to add electrical length such that the transmission line sees a current node at an odd multiple of quarter waves or you can subtract electrical length until you get to a current node. What you do will depend upon whether you use capacitive or inductive, series or parallel coupling. Each with the same result and each requiring at least one quarter wave offset to ground. Now, one might also choose to use distributed rather than lumped components and simply add another quarter wave to the antenna resulting in a three quarter wave antenna with a quarter wave offset to ground. Using orthogonality, the first quarter wave can be vertical and the last 1/2 wave horizontal in a sort of inverted "L" configuration, eliminating the need for a transmission line at all. I haven't yet tried this but it sounds good..No?

72/73
Arth W6AGS

Date: Wed, 30 Jun 1999 09:21:30 PDT
From: lane cox <lanecox@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [43896] dBm
Message-ID: <19990630162130.83294.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Thanks to every one who responded to my question about dBm, I think I am getting the hang of this stuff. My next question is along the same lines; I built a 2-diode mixer so I could practice winding toroids. When I feed a signal into the mixer I get about 1.3 volts peak to peak. The signal generator I am using is an old broadcast sync. Generator which is capable of producing 1 volt across 75 ohms of 3.58 MHz sine wave. If I put a 1000 ohm resistor in series between the generator and the mixer I get a certain voltage, if I then substitute a variable resistor for the mixer and adjust the variable resistor for the same voltage reading-then measure the resistance, I get a resistance of about 733 ohms. My question is: is this a valid way to measure the input impedance of the mixer? And If I need +7dBm across the mixer then how much voltage should I measure across the 733 ohm to know that I have +7dBm? If it is not an improper use of the group-perhaps someone could answer to the group and we could all learn. Thanks Lane Cox
N6NLB

Get Free Email and Do More On The Web. Visit <http://www.msn.com>

Date: Wed, 30 Jun 1999 10:28:38 -0600
From: Larry East <w1hue@amsat.org>
To: qrp-l@lehigh.edu
Subject: [43897] Email problems...
Message-ID: <3.0.3.32.19990630102838.0090e420@axp1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I am currently able to send but not receive email using my w1hue@amsat.org and w1hue@arrl.net addresses. The last email that I received from the "outside world" was on 6/17 -- if anyone has sent anything since then, it was not received. Until I get the problem fixed, email can be sent to me via lve@inel.gov -- but only "important stuff" please. :-)

72, Larry W1HUE

Date: Wed, 30 Jun 1999 11:32:41 -0500
From: "Chuck Adams K5FO" <adams@ticnet.com>
To: qrp-l@lehigh.edu
Subject: [43898] Metal Working 101
Message-ID: <E10zMCF-00023U-00@pop3.ticnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Gang,

Thanks to the 100+ emails that I got on the question.
I think I answered each and everyone of them personally
and if I missed you I apologize.

For the first time in a long time everyone agreed on
all the issues... :-) What a group. And so many
machinists among the group too. We need another paddle
contest Doug.... :-) I bought the last two issues
of Machinist's Workshop and The Home Machinist's Shop
or similar title that I can't find right now, but you know
of which I speak. I was thinking about a Sherline Mill/Press
but there are too many things to learn and so little time....
I even went to research the local Junior Colleges for a one
semester course but no such luck.

I am in awe of the people that do this stuff day in and day out.
Their skills and knowledge is a vast untapped (no pun intended)
resource. Some of the people sent me lengthy writeups and these
same people have never posted one single message in all this time.
But their English, their writing skills are far advanced about the
general population and it brought a chill of appreciation to read
them. I am humbled by it all. Some of you need to think of what
you know, pick a subtopic and write it up for QQ or some other
newsletter. Something that QRPers might want to know about in
their construction/experimenting/workbench/... stuff. There is
some stuff in the ARRL HB but so much that isn't covered either.

So, later this week I will follow the instructions and post pics
to the web. I didn't ask the question to show ignorance but to
make sure that I didn't mess this project up....

Thanks to all,

dit dit

Chuck Adams K5FO adams@ticnet.com <http://www.qsl.net/k5fo/>

Date: Wed, 30 Jun 1999 10:39:22 -0600
From: Bruce Kizerian <kizerian@ced.utah.edu>
To: qrp-l@Lehigh.EDU
Subject: [43899] Re: DLN Catch 22
Message-ID: <377A4839.D5B92260@ced.utah.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Sorry, but I can't resist commenting on this. I am confused. If you are able to make a contact with your "dummy load", it means that it is radiating, and, therefore, not a true dummy load--therefore, you are disqualified. The only winners are those who were using a real dummy load and were unable to make any contacts.

Just my two cents...

Bruce kk7zz

Date: Wed, 30 Jun 1999 09:42:42 -0700
From: Norm Melick <henmel@worldnet.att.net>
To: ctrask@primenet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>, curt <k3ivb@stargate.net>
Subject: [43900] Re: Metal Working Advice Needed
Message-ID: <377A4902.67FE2F39@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Chris Trask wrote:

> Well, that's an interesting position. You come out and openly
> attack somebody answering a posting, assume a self-righteous pompous

> position, insult the poster(s), then make a plea for calm and order.
>

I read Curt's post (all 2 sentences), 3 or 4 times. I saw no evidence of attacks, self righteous pompous positions, or insults. In fact, his last sentence agreed with you. Do you suppose that it would help at all if you had fully read and understood his posting before responding to it? After all, it was only 2 sentences long, one of which agreed with you, leaving one sentence to comprehend.

As far as legitimacy is concerned, I fail to understand your self righteous, pompous position that you are a "legitimate" poster, and he is not. The fact that he wanted to avoid a flame war speaks volumes for his maturity.

As Curt said: "Let it end here".

Norm Melick

Date: Wed, 30 Jun 1999 12:47:36 -0400
From: hamjoel@juno.com
To: qrp-1@lehigh.edu
Subject: [43901] Re: DLN Report -- WE6W
Message-ID: <19990630.124914.-392699.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ed.

I read ur DLN report and have to shout "UnFair" in effect u used a long wire antenna instead of the dummy load...

I thought the dln was supposed to be 5 watts into a properly terminated dummy load... which at first u did and did not radiate... but after u compensated for the proper shielding and loading u radiated like the sun...

I do not think that was the intent of this procedure or test...

That being said... it sounds like u had a ball figuring out how to defeat the dummy... congradulations on the contacts... with the 33ft wire...

Joel KE1LA
In Maine

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Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Wed, 30 Jun 1999 13:10:17 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [43902] 1/2 WAVE FOCUS
Message-ID: <bddd5256.24aba979@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

To key you folks in, I am trying to fins a simple way to just real out 1/2 wave of wire for what ever band we may want to work and use a simple tuner with a short counterpoise. There appears to be info on single band ops but not multiband.

Regarding the wire, it will consist of several segments of wire chained together: 22.5, 11, 33.5 and 66ft. The segments will be addative and be for 15,20,40,and 80M. To facilitate tapping in, the wires will be interconnected by fishing swivels. You just take an alligator clip and connect at that point.

Tuner: Two ways I will be testing. Making the wire a bit shorter than op freq and use a series adjustable inductor or a bit longer and use a variabbble cap. Using the inductor method you can tie in coax at the base/counterpoise and use the centr of the coax to tap onto the coil for a good coax 50 ohm match.

SUPPORT: I will be using the SLV telescoping fishing pole as the support and just reel the wire out.

Thanks for all the help and suggestions...will let you know the results soon I hope....Alan KB7MBI

Date: Wed, 30 Jun 1999 11:53:52 -0500
From: Jay Freeman <jayFreem@direcpc.com>
To: jaevans@codenet.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [43903] Re: Water Bottle Throwing
Message-ID: <377A4B9F.467FA9B6@direcpc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

John Evans - N0HJ wrote:

> ...I have been having fun and much success with a golf-ball on said
> eye hook. I can swing the line like a sling and do pretty good in 2-4
> shots, depending on wind conditions.

Hmm, perhaps a sand wedge? :)

73,

Jay

--

```
*-----*
* Jay Freeman - WT9S                ARRL *
* G-QRP 10319 QRP-ARCI 9981 ARS 562   *
* SASS #18700                      NRA Life *
*-----*
```

Date: Wed, 30 Jun 1999 13:09:14 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: Monte Stark <ku7y@dri.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43904] Re: Jan DL night
Message-ID: <Pine.3.89.9906301208.A11993-01000000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 30 Jun 1999, Monte Stark wrote:

>
> I entered as a 2 radio single op high priced devision....
>
Whew, the competition is tough! First Art Marshall with his gin and tonic and then Ron with his 80 foot parasitic element for two dummy loads! Wait! Maybe my standing is still intact as multi-multi since Ron was single-op. But wait again! How many operators was Art and how many transmitters? Does the number of hands sending CW that appear before Art's eyes count? No telling how many that might have been.

By the way, Art and I were Novices in 1955 and lived about 15 miles apart near Cape Cod. I used to ride my bicycle to his house for get-togethers. We lost touch after high school and found each other

about forty years later through QRP-L. Check out the WN1GIV QSL on my web page... We're both in FL now, but about 275 miles apart so we haven't met for an eyeball yet (or a QSO on the ham bands).

73,

Bob Patten, N4BP (0 0) Plantation, FL

-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org

Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>

Brass Pounder BBS: (954) 472-7715

Date: Wed, 30 Jun 1999 13:26:20 EDT
From: DENNISMO@aol.com
To: qrp-l@lehigh.edu
Subject: [43905] Getting the last word in!
Message-ID: <98728ca.24abad3c@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gals and Guys -

Have you noticed that when a member of this list doesn't like what someone else has posted they respond with their "two cents" and quite often with some serious cash! They often end their post with something like "... this should be the end of this thread!". It rarely works. That is like saying Okay, now I've had my say and it should end here so that I can have the last word on this matter. If you are really interested in ending "IT" why not just let it drop BEFORE you put your last pocket change into the fire.

As you know opinions are like certain parts of our anatomy ... everyone has one or two - some have more than others. (You figure that one out ... condx are very bad here today).

73 es 88 (as appropriate) de Denny AD6EZ <><

Date: Mon, 28 Jun 1999 03:35:08 -0600
From: "William R. Colbert" <af852@rgfn.epcc.edu>
To: qrp-l@lehigh.edu

Subject: [43906] Re: Cabinetry
Message-ID: <377741CC.3DA027DD@rgfn.epcc.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I don't have a reference handy at the moment but I recall in some of his writings for QST, later in CQ and Monitoring times, Doug DeMaw had shown using wooden cabinets for small rigs and the inside of the wood box was screened with copper or bronze screen with the board and the screen going to a common buss. Looks like something like that would be a nice project. Will we see a Cathedral style wooden encased rig showing up soon?

Don't know what thread this will attach to as it appears the threads and subject titles are getting all messed up - at least on my digest for this morning. Not sure what one is going to read when the highlighted subject is selected.

73 -
Ray

--

"Politicians are like nappies. Both should be changed regularly -- and for the same reason"
"Scotsman - Scotsman's Diary 12/97"

Ray Colbert, W5XE, 00TC 3618, SOWP 1064M NCT2
(also w5xe@juno.com El Paso, (FAR WEST) TEXAS

Date: Wed, 30 Jun 1999 17:32:24 +0000
From: Ed Loranger <we6w@qsl.net>
To: qrp-1@lehigh.edu
Subject: [43907] Re: DLN Report -- WE6W
Message-ID: <377A54A8.5898@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Howdy friends. I'm having a great day and enjoying the comments regarding whether a dummy load is a dummy load if it radiates.

Or whether a ground wire connected to receive reflections from a properly terminated yet mis-tuned ATU serving as a transmitter load is fair.

The AZ SQRPIons kept me smiling and encouraged me to look into the 'Spirit' of this little test. It was obvious from my early attempts with the perfectly balanced ATU that I wasn't going to have fun or make any contacts.

Instead of blowing the contest off, I decided to find a plausible method of radiating from my 50 Ohm terminated transmitter.

If you ain't having fun you ain't doin' it right. Or thereabouts.

Thoughts crossed my mind regarding proper terminations. First, unless you have network analyzer with reflection test set, you can't guarantee all power is delivered to the load. How does one ever expect to use a 50 Ohm load and declare the rig is terminated? Is there absolute proof your tx output is always 50 Ohms resistive at all frequencies? Does one use a calorimeter to verify the load is dissipating 5 watts?

I'm smiling and had a great time last night. I learned that if the load stays cooler, you must be leaking RF to someplace else. I learned that it IS possible to put a 50 ohm load on the coaxial output of your ATU and still radiate if you float a ground wire and mis-tune your ATU.

Many answers were found here. And that is what I believe we all wanted to find.

I just set up the ATU in the normal fashion such as might be found in any hamshack. I loaded the antenna output port and experimented to see if I could make it radiate.

The experiment was a success and I thank you all for your well worded comments.

73 to all, Ed we6w

--

-Ed AR Millennium Q's=>900/2000 QRP-L#1068
72, Ed WE6W, A-1 OP; <http://www.qsl.net/we6w> Santa Rosa, CA
QRP-Z#106 AR#112 HI-QRP#64 NC#2227 ARCI#9397 ARS#275

Date: Wed, 30 Jun 1999 13:37:28 -0400
From: "Richard E. Robinson" <rerobins@email.uncc.edu>
To: qrp-l@lehigh.edu
Subject: [43908] Flame Bait 101
Message-ID: <v03102802b3a00330592e@[152.15.144.71]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The 10 best topics to start a flame war on QRP-L:

10. ARRL
9. Non Windows operating systems
8. Spud guns
7. Q dope
6. Burt Fisher
5. Ebay
4. late delivery of QRP magazines
3. the SGC 2010
2. Code vs. no code

and the new Numero Uno topic to start a flame war:

Drum Roll Please

1. Asking for metal working advice

72 and back to your local sponsor,

Rick

Date: Wed, 30 Jun 1999 11:39:05 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@lehigh.edu, CQCList@cqc.org, brasspounders@e-groups.com
Subject: [43909] New Products from Morse Express
Message-ID: <199906301738.LAA03009@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

New, from Morse Express, a paddle and a keyer....

*** The Chinese "No-Name" Paddle ***

With its familiar cantilever design, the Chinese paddle features adjustable contact spacing, hard silver contacts, and a chrome plated mechanism with steel needle bearings and nylon bearing seats. They are surprisingly robust-- a lot of them were found to be "sprung" on arrival from China, but the rocker assembly just snaps right back into place. Only ordinary screwdrivers are needed for adjustment.

These paddles have absolutely no markings and about all we know about them is that they are available to Chinese hams through their national organization.

The paddles are in factory original styrofoam packaging, with some showing a bit of "warehouse wear" such as deteriorated packaging and dust. Supplies are limited, and apart from being a good heavy-duty paddle, they are also very collectable.

The Chinese "No-Name" Paddle weighs around two and a quarter pounds! Approximate base dimensions are 3-3/4 x 4 inches. Excellent value at \$84.95.. See it at <http://www.MorseX.com/pla> .

*** Joe Lunsford, N4YG's Smart Keyer III ***

The third design in this series, the Smart Keyer III is an advanced design which builds on the Smart Keyer legacy, incorporating suggestions from expert operators, contestors and DX enthusiasts. It is a joy to operate. A 12-key keypad (reminiscent of the late lamented AEA contest keyers) is conveniently located on a sloping front panel along with speed and sidetone volume/on/off control knobs. The rear panel contains all the interconnecting jacks which interface with any transmitter, paddles, remote keys, and the RS232 port of your computer. The top panel contains status indicators (LEDs) along with printed shorthand reminders of the numerous functions of the keypad.

Two memory banks contain 9 messages each. These may be loaded directly using the paddles or using your PC and the RS232 port located on the rear panel. Messages are stored in non-volatile memory and are retained when power is turned off.

The SMART KEYER III comes complete with plug-pack power supply, users manual which includes a complete circuit diagram, and a program disk for using the RS232 features with your computer..

The Smart Keyer III is a fully assembled and tested unit, ready to plug and play at \$175. See it at <http://www.MorseX.com/smartkey> .

Use our secure ordering facilities on the web site, or call (800)2388205 toll free to order by phone, or call (303) 7523382 for more

information.

Morse Express:"Everything for the Morse Enthusiast..."

73

Marshall Emm

N1FN/VK5FN

n1fn@MorseX.com

Morse Express and Oak Hills Research

"Everything for the Morse Enthusiast"

<http://www.MorseX.com>

<http://www.ohr.com>

(303)752-3382

--

Date: Wed, 30 Jun 1999 13:42:40 -0400

From: "Tracy, Michael, KC1SX" <mtracy@arrl.org>

To: "'QRP Email List'" <qrp-l@lehigh.edu>

Subject: [43910] Re: Metal Working 101

Message-ID: <8060D04206ABD2118C6800805FC743CC46A8EC@mail.arrl.org>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

K5FO wrote:

> I even went to research the local Junior Colleges for a one
> semester course but no such luck.

This reminds me - I've become interested in metal working in the last couple of years and have found lots of books and magazines (and web sites) on the subject. However, I am hesitant to work with lathes and other machine tools without some kind of "hands-on" instruction first.

I've also searched junior colleges and adult education programs for courses on this, but nothing turns up that I can find. Anyone know of a good place to look? It makes me wish I took metal shop in high school but I wasn't interested back then.

BTW - This is QRP related - I've got some ideas for homebrew paddles and I want to improve my enclosure fabricating skills. :-)

72, Michael Tracy, KC1SX

Date: Wed, 30 Jun 1999 13:08:50 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [43911] IRN was: DUMMY ME !!
Message-ID: <199906301752.NAA25191@moose.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

>
> Maybe the dummy load thing was too ambitious a handicap and we should start
> with something simple like "indoor antenna night" or "20 ft of wire night".
> Nick, WA5BDU
>
Nick, et al,

I too monitored 7.040 for signs of dummys and thier loads and had
similer thoughts. I was thinking of IRN, Inefficent Radiator Night.
Similer to DLN, but with a slightly higher chance of making qso's.

Load up any unlikely object, such as rain spout, bedsprings, bent
coat hanger, curtian rod, widow frame, house electical wiring, hot
air heating ducts, RR Tracks, random wire, Isotron (tm), Fractal wire
tree, Slinnky (tm)... you get the picture, if you can load into
it, you can use it :-)

I'm thinking 6 ft fluresent light tube, feed through a step up
transformer. Gotta get the voltage up high enough to make a plasma
discharge. If nothing else, will get strange looks from the neighbors
in the morning :-)

In an attemt to make this a "scientific" study, A/B comparisons
between the IR and a "good" antenna would be encouraged. ie,
establish contract with your normal antenna, then get a report using
the IR antenna. Or vica-versa.

Sponcers? Only 28 days (give or take a few) 'till the next full moon!

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Wed, 30 Jun 1999 14:01:47 -0400
From: "curt" <k3ivb@stargate.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43912] Need Ten Tec collectors help
Message-ID: <001f01bec322\$9ff090c0\$70b9a6d1@Curtk>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

To the knowledgeable Ten Tec collectors:

What is the average going price for a Century 22 without options, and the matching antenna tuner, 254, apiece.

Thanks for the help.....curt

Date: Wed, 30 Jun 1999 13:09:12 -0500
From: "Chuck Carpenter" <w5usj@globeco.net>
To: hamjoel@juno.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43913] Re: DLN Report -- WE6W
Message-ID: <3.0.2.32.19990630130912.006c8584@bosshog.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Joel es DL/QRPers,

Amazing how much fun you can have with something as simple as trying to make a contact with a dummy load. I did it years ago with a light bulb but that's a compact non-resonant antenna -- not a real dummy load.

Enjoyed reading all the dialog about the pros and cons of DLN.

72/73 Chuck - W5USJ - EM22cv - Rains County - Point, TX

Date: Wed, 30 Jun 1999 14:34:52 -0400 (EDT)
From: Chris Cartwright Sr <ccart@phideaux.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [43914] Re: Metal Working 101
Message-ID: <Pine.LNX.4.04.9906301430550.22794-100000@dns.phideaux.com>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 30 Jun 1999, Tracy, Michael, KC1SX wrote:

> I've also searched junior colleges and adult education programs for courses
> on this, but nothing turns up that I can find. Anyone know of a good place

I know the local (Maryland) schools send home an "Adult Education" (guess you could take that the wrong way:) brochures at the end of the school year. I'm not sure that they offered Metal Working 101, but there were some hands-on auto mechanic and carpentry classes offered. Check with your local school district (high school/VoTech) and see what they offer.

-- Chris Cartwright, Technical Engineer | ccart@phideaux.com --
-- N3XRV ARRL-VE Norcal Zombie #163 | Gaithersburg, MD FM19je --
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

Date: Wed, 30 Jun 1999 14:44:56 -0400 (EDT)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: "Richard E. Robinson" <rerobins@email.uncc.edu>
Cc: QRP List <qrp-l@lehigh.edu>
Subject: [43915] QRP-L First 2 posts! Re: QRP-L CD Available NOW!!!
Message-ID: <Pine.OSF.3.95.990630143347.28055C-100000@saturn1.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Just to tickle you folks, from the QRP-L CD v2.0, the very first two posts sent on QRP-L!!!

***** B E G I N *****

QRP mailing list

Bruce Walker <bruce@Think.COM>
Tue, 6 Apr 93 10:07:11 EDT

I'm just testing the setup of the QRP mailing list. Sorry to bother you!
--bruce WT1M

Good Job Bruce

adams@chuck.dallas.sgi.com (Charles Adams)
Tue, 6 Apr 93 13:48:57 -0500

a million thanks to Bruce, WT1M, a good guy and all that. taking on maintenance of the qrp net group will help everyone involved.

of course, using them there super computers, probably doesn't even put a dimple into the cycle count on his machine. :-) i used to be at Alliant Computer systems in the old days. they went under when i left. :-) yeaha, that's right, that's the answer.....

anybody with rigs for sale, etc.

i've got the schematics for the OHR rigs, MXM, Tejas Backpacker I, HW-8, HW-9 and still looking for more. i've got your calls, so just hold on a lil bit longer. the check's in the mail syndrome.....

anyone with the old TenTec rig schematics?

i've got Tango Schematic up and running now and am starting on the old TwoFer stuff etc outta the QQ. let you know how the project is going.

72 de k5fo chuck dit dit

now on 20, 30, and 40 qrp @ 2W max. power company promised to fix my line noise today.

ciao

***** E N D *****

Notice back then, qrp-l was hosted at "think.com!" That was before lehigh.edu.

There is a LOT more on the CDs that JUST every post ever sent to QRP-L! I will make some more CD-Rs available after the holiday, if you are interested in one, drop me a line with your mailing address. Then send \$10 to:

Paul Valko - W8KC
3123 Cairncross Drive
Oakland, MI 48363-2705

I'll mail them out as they are burned next week.

73! =paul= W8KC
Collector of Ten*Tecs and other fine plastics
<<http://www.acs.oakland.edu/~prvalko>>

Date: Wed, 30 Jun 1999 08:54:16 -1000 (HST)
From: "Mike W. Burger" <mike@gold.chem.hawaii.edu>
To: qrp-1@Lehigh.edu
Subject: [43916] FD from Oahu
Message-ID: <199906301854.IAA20779@gold.chem.hawaii.edu>

This year I was buried in other projects so I went out with Koolau Ham Club. They were not QRP unfortunately, but running 50 to 60 watts.

The bands were very interesting. 20 meter SSB was a continuous howl throughout the band Saturday evening local time. I could not find a spot where there were not six to eight stations in the bandpass. But by listening to a particular voice timbre I would work stations. Funny, we could work RI much easier than CA much of the time. Talking to the front of someone's beam was much easier than talking to the back of someone else's. 20 was like one pileup from one end of the 20 meter SSB to the other end.

15 was great and 10 meters was the band of choice for most of the day on Saturday. Several stations called us with /qrp on the end of their calls and we made a special effort to get back to them in the yowl and howl. Batteries died on Sunday morning near the very end of the contest (the joys of QRO). Maybe next year I can talk them into QRP operation or go out again with my own QRP station.

It was VERY different from just two years ago, on the bands at least. I got jaded at one point and would just skip over the CA stations and pounce on the CT, RI, NC and other East Coast because they would come back right away while call after call to a CA would go unanswered. Finally I tried a CA again and he came back at once; well some people have to be using verticals.

Not all QRP, but at least not about email policing...

Date: Wed, 30 Jun 1999 11:55:37 -0700
From: neil <neil@aade.com>
To: MichaelN@cycat.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [43917] Re: dBm

Message-ID: <377A6828.6780257D@aade.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Sorry to stick my \$.02 worth in but:

>From an engineering point of view one MUST specify the impedance when talking about dbm as the number is meaningless without it.

Of course it is customary for RF people to assume 50 ohms and audio people to assume 600 ohms when not specified.

--
Neil
<http://www.aade.com>
<mailto:neil@aade.com>
Almost All Digital Electronics
1412 Elm St. SE
Auburn, WA 98092
253-351-9316

Date: Wed, 30 Jun 1999 13:26:02 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: <waltk8cv@mpdr0.detroit.mi.ameritech.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [43918] Re: DUMMY ME !!
Message-ID: <006a01bec326\$4486efa0\$58e498cd@spock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----
From: Walter D. Amos <waltk8cv@mpdr0.detroit.mi.ameritech.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: 6/29/1999 10:53 PM
Subject: DUMMY ME !!

>I listened and listened but not a signal was heard on 7.040 under the 10

```
>DB over S-9 RTTY CHERPER ..... :-)
>
>0 points
>0 mults
>
>= CAPTAIN ZERO !!
>
>Contest whiz , faster than a speeding NERD ..... ;-)
```

All right, Walt! Congrats!!! (I think?? :^)

Here's the score from AB5NI: an ultra-massive, "you'll slap your mama it's so unbelievable", "Hey -- how did he do that?" ZERO :^)

I was running a single xmitter (homebrew), listened on the HW-8, and the load was a phased-dummy array. One "antenna" -- and I use that term VERY loosely !!! :^) -- was the ever-so popular Heath Cantenna, and the other was a fifteen-watt light bulb on top of the operating tables 2nd shelf. Each "antenna" was tied into an L-C phasing unit. I didn't notice any front-to-back ratio or gain worth speaking of, but it wasn't from the lack of trying :^). I was going to use two light bulbs so I could at least stand half a chance of making a contact, but I decided against it. I figured that if I did make a contact it would have to be off of the Cantenna portion of the array, because it had the word "antenna" built into it and Heath Kit had never steered me wrong :^).

My sister stooped by with her kids, so I recruited my niece into the cheering section. Here's the cheer I wrote for her, and you might want to give it to your own cheering section at next years DLN:

"Two bits, four bits, six bits a buck! If you make a single contact, it's gotta' be luck!"

Further inspiration was provided by watching "Dumb and Dumber" on the ham-shack VCR during the event.

Stations heard:

- 1) Some digital dude that was twenty over.
- 2) QRN.

Score:

MEGA-ZERO :^)

Can't wait till next years event!!! :^) :^) :^)

73

Randy Jouett, AB5NI

Date: Wed, 30 Jun 1999 15:11:24 -0400
From: "Mike Pupeza" <mpupeza@csolve.net>
To: <qrp-1@lehigh.edu>
Subject: [43919] QRP SSB FD with SG-2020. It still works!
Message-ID: <199906301912.PAA05474@hummer.csolve.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For the 11th year in a row, Rick VE3IMG and I, VE3EQP, ran a 1B2-Battery Field Day SSB only station. For the 2nd year, we used the SGC SG-2020 QRP transceiver.

Here was the set-up:

SG-2020 Xcvt

Kenwood MC-60 microphone

LD-1 LDG QRP automatic antenna tuner

Homemade 4:1 Balun

270' Delta Loop at 30' height fed with 450 ohm ladder line.

50 Ahr of assorted gel cel batteries, and 65Ahr deep-cycle trailer battery

2 - 30 Watt Solarex Solar Panels with Mike Bryce's 'SunLogic' Micro-P controller

IBM Thinkpad 760, with inverter off the trailer battery for Logging/Duping

Results?

251 contacts - 1255 points plus 200 for Natural and Emergency powers = 1455 points.

10M = 8

15M = 7

20M = 9

40M = 131

80M = 82

We were set up on The Moonstone Ridge near Coldwater Ontario, about 900' above sea level about 100 miles north of Toronto. This is a quiet, noise-free location and we have been there for about 6 years. Conditions on the higher bands were lousy for us - just a few stations up over the noise floor. Most of them were big Kilowatters who could not hear us. Only a few contacts pulled us through. However, 40M was our bread and

butter band. It was pretty well open all the time, even though the broadcasters were pretty strong. We had to get on other bands for times because our running into dupes would get really high. 80M was also good, so we swapped over a couple of times.

The SG-2020 worked well. It, of course, was overloaded often, but I think most rigs would have been - sometimes there is so much noise that you tune across and can't seem to get any station to come clear!

A handy new feature of the 2020 is being able to push in the PBT button, then, when the Mike button is pushed, it transmits with a tone for tuning. That was great for using the LDG tuner. Very quick to check, and set up to listen to other bands for a quick monitor. The audio filter does work OK and I had it set, most of the time, for 1.8 kHz bandwidth. On YL operators, I did have to widen it out a bit to understand them, otherwise they sounded distorted. I should have used a DSP for 40M but didn't bother this year. It would be handy to get rid of the heterodynes.

All in all, my 2020 works well for me still, and I have now been using it constantly for over 2 years. The current draw is definitely manageable. Our big disappointment was that we were 3 contacts short of our last year results - heck!

But then, there's a challenge for next year!

72, 73 - - - - - Mike.....>

Michael Pupeza VE3EQP
283 Peek-a-Boo Trl RR# 2
Penetanguishene, ON
Canada L9M 1R2
(705) 549-3220

Date: Wed, 30 Jun 1999 15:23:09 -0400
From: "Alex Mendelsohn" <ai2q@ispchannel.com>
To: <n4bp@bc.seflin.org>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [43920] RE: Jan DL night
Message-ID: <000601bec32d\$fcc0f000\$5c32a7d0@mendelsohn.ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I enjoyed perusing your Web site Bob. I too, just received a QSL card from "yesterday."

NX1F sent me a QSL I had sent to him when he was WB20BF. I's dated 1961!

It's almost spooky to look at my handwriting, and read the comments on the

old card. BTW, there was no Zip code in my QTH's address at that time either. Hee. Hee.

Ah, those were the days with my Heathkit AR-3 and AT-1. Sigh.

Vy 73, AI2Q, Alex in Kennebunk, Maine .-.-.

> -----Original Message-----

> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of

> Bob Patten

> Sent: Wednesday, June 30, 1999 1:09 PM

> To: Low Power Amateur Radio Discussion

> Subject: Re: Jan DL night

>

>

> On Wed, 30 Jun 1999, Monte Stark wrote:

> >

> > I entered as a 2 radio single op high priced deviation....

> >

> Whew, the competition is tough! First Art Marshall with his gin and

> tonic and then Ron with his 80 foot parasitic element for two dummy loads!

> Wait! Maybe my standing is still intact as multi-multi since

> Ron was single-op. But wait again! How many operators was Art and how

> many transmitters? Does the number of hands sending CW that appear

> before Art's eyes count? No telling how many that might have been.

>

> By the way, Art and I were Novices in 1955 and lived about 15 miles apart

> near Cape Cod. I used to ride my bicycle to his house for

> get-togethers. We lost touch after high school and found each other

> about forty years later through QRP-L. Check out the WN1GIV QSL on my

> web page... We're both in FL now, but about 275 miles apart so we

> haven't met for an eyeball yet (or a QSO on the ham bands).

>

> 73,

>

> Bob Patten, N4BP

(0 0)

Plantation, FL

> -----o00o-()-o00-----

> -----

>

> E-Mail: n4bp@bc.seflin.org

> Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>

> Brass Pounder BBS: (954) 472-7715

>

>

Date: Wed, 30 Jun 1999 14:31:41 -0500
From: Jim Ek <JIM-EK@worldnet.att.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>, "'af852@rgfn.epcc.edu'"
<af852@rgfn.epcc.edu>
Subject: [43921] RE: Cabinetry
Message-ID: <01BEC305.73DD7A60@22.indianapolis-08-09rs.in.dial-access.att.net>

Hey Ray, what a GREAT idea. Combine radio and antenna into the same casing. Hope you don't mind but I think I will start off with a 40m rig first and then work up to 160.<now where did I put that forklift>.

Have a Great Day!
Jim

From: William R. Colbert[SMTP:af852@rgfn.epcc.edu]
Sent: Monday, June 28, 1999 4:35 AM
To: Low Power Amateur Radio Discussion
Subject: Re: Cabinetry

<big snip>

Will we see a Cathedral style
wooden encased rig showing up soon?

<snip>

73 -
Ray

--

"Politicians are like nappies. Both should be
changed regularly -- and for the same reason"
"Scotsman - Scotsman's Diary 12/97"

Ray Colbert, W5XE, OOTC 3618, SOWP 1064M NCT2
(also w5xe@juno.com El Paso, (FAR WEST) TEXAS

Date: Wed, 30 Jun 1999 12:41:09 -0700
From: "Phinizy, William" <wphinizy@filenet.com>
To: "'QRP-1 List Server'" <qrp-1@Lehigh.edu>
Subject: [43922] Re: Dummy Load Night
Message-ID: <C3AF5E329E21D2119C4C00805F6FF58F01DE01FF@hq-expo2.filenet.com>

..is it o.k. to used phased dummy loads for gain?

Date: Wed, 30 Jun 1999 15:50:10 -0400
From: "Dennis & or Jennie" <denjen92@net-link.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43923] Re: FD 99 -DON'T DO's
Message-ID: <000a01bec331\$c3cf2920\$a88f59cf@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Subject: Re: FD 99 -DON'T DO's

> 4. Don't have kids. They have the nasty habit of graduating during FD.
>

Don't forget Birthdays also, my son was born on June 26, 1998
72 73 de DENNIS KB8SOJ

Date: Wed, 30 Jun 1999 12:55:26 -0700
From: Allan G Taylor <k7gt@arrl.net>
To: qrp-1@lehigh.edu
Subject: [43924] looking for...
Message-ID: <377A762E.1BA3@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I am looking to get in touch with the person who sold me some SM
caps a month or so back. Please contact me directly.

Sorry for the BW

--

```

                                     |
                                   /|
                                 /  |
Allan Taylor  K7GT                | /Z | \   FISTS 3222 ARS 228
    k7gt@arrl.net                /| /599| \   DXCC and WAS 40/cw
Pleasanton CA  CM97aq            /_ | /____|__ \_ http://www.qsl.net/k7gt
...QRO, QRP, or barefoot..... [\--=====~/
~~~~~
```

Date: Wed, 30 Jun 1999 15:57:08 -0400
From: Jim Lyons <lyons@canada.com>
To: qrp-l@lehigh.edu
Subject: [43925] HW8 Output Tweaking
Message-ID: <3.0.5.32.19990630155708.00834250@pop.hip.cam.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Here are some results of tweaking my friends HW8 RF output. BTW it has an ECG388 for Q9 (RF out) which may account for the higher outputs than Mike Czuahajewski mentioned in his post (Thanks Mike!).

As received the output on 80 and 40 was approx 500 mW.

Replacing the 40 metre coils with identical turn coils on fresh FT37-63 cores did not improve output substantially. Reducing the number of turns to get a measured 7 microhenries did not get the output much above 750 mH. I then wound two coils as follows using T37-2 cores.

| | |
|--|--------------|
| 40 metres 7 microHenries 42 turns 30 G wire on T37-2 cores | 3 Watts out. |
| 20 metres original cores | 3.5 Watts |
| 15 metres original cores | 2 Watts |

Now to tackle 80 metres.

Jim Lyons, VE2KN
Montreal

Date: Wed, 30 Jun 1999 15:06:31 -0500
From: "Tom Moll" <tomm@xata.com>
To: <qrp-l@lehigh.edu>

Subject: [43926] Dummy Load Night - What I Learned
Message-ID: <001501bec334\$0c1c0070\$4baa7acf@tomm.XATA-CORP>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Whew !!! Well, it's finally over with. The DLN reports are just pouring in to my email - all three of them so far. Thanks to Paul WA9PWP, Ed WE6W, and Ben NW7DX.

Congrats to WE6W who actually QSO'd K6KSR, NA6E, and N6MX (apparently only Ed was on DL judging by the signal reports given !)

I know there are more good stories out there!

Just to seed the pot, here is What I Learned From DLN:

1. There really is no difference between my long wire and my vertical antennas - they both hear DL signals equally well.
 2. All of my receivers exhibit equal sensitivity to DL signals, the S38C, SX-117, Icom, R-390, Kachina, etc. - no difference!
 3. Memory keyers do not increase your QSO rate on DLN.
 4. This may not have been a valid or fair test of my new DSW-40.
 5. Just for grins, I fired up the old Viking Courier and tried 500w for a while - same results. This just goes to prove what we all already know - QRO is no more effective than QRP.
 6. I may really be as stupid as everyone has been telling me all these years.
 7. There really was a group of hams desperate for something to do last night.
 8. You can simultaneously work DX on 15m on DLN by using another rig with an antenna connected.
- I could go on for pages about all the stuff I learned last night, but, well you get the idea.

I'll collect input from the participants for a few days and then post the "Best Of DLN" comments.

Thanks to all who tolerated this ! If nothing more, I hope it was an entertaining diversion for those with a sense of humor. And as Ed Loranger said, there was actually something to be learned from this !
Thanks Ed !

I believe the correct DLN salutation should be 71, or possibly as Paul WA9PWP suggested, 0.0072

Tom Moll N0BS

Date: Wed, 30 Jun 1999 13:22:16 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [43927] Re: Metal Working 101
Message-ID: <Pine.GS0.4.10.9906301320180.5927-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

Up here in Northern Nevada they call it Machine Shop, not Metal Working.

There is I and II that I saw last night. Will check again tonight to be sure I have the full right name. But I know it's Machine something!

cul,

Ron, KU7Y

Date: Wed, 30 Jun 1999 16:24:43 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: Alex Mendelsohn <ai2q@ispchannel.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [43928] RE: Jan DL night
Message-ID: <Pine.3.89.9906301644.E21728-0100000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 30 Jun 1999, Alex Mendelsohn wrote:

>
> I enjoyed perusing your Web site Bob. I too, just received a QSL card from
> "yesterday."
> NX1F sent me a QSL I had sent to him when he was WB20BF. I's dated 1961!
Ain't it a blast!
>
> Ah, those were the days with my Heathkit AR-3 and AT-1. Sigh.

I see another thread forming. :-)
I had the earlier (and probably inferior) AR-2 receiver. It had a wood case and was extremely microphonic. Had to be very careful when you even touched it or the freq would jump. Xmtr was a 6L6 oscillator.
I remember Art, WN1FJI had the Heath AT-1 antenna tuner and I was fascinated by the neon light on it. :-)

73,

Bob Patten, N4BP (0 0) Plantation, FL
-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>
Brass Pounder BBS: (954) 472-7715

Date: Wed, 30 Jun 1999 13:30:11 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: "Phinizy, William" <wphinizy@filenet.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43929] Re: Dummy Load Night
Message-ID: <Pine.GS0.4.10.9906301329080.5927-1000000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 30 Jun 1999, Phinizy, William wrote:

> ..is it o.k. to used phased dummy loads for gain?
>

Yes, but notice that the phasing must be done to give you negative gain to cancel any RF that might have leaked out!

Ron, KU7Y

Date: Wed, 30 Jun 1999 20:36:54 +0100
From: Larry Cahoon <wd3p@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [43930] Re: FD 99 -DON'T DO's

Message-ID: <19990630.203729.4334.1.wd3p@juno.com>

>

>Subject: Re: FD 99 -DON'T DO's

>

>

>> 4. Don't have kids. They have the nasty habit of graduating during
>FD.

What - no kids, my 11 yr old was out there with me and even made 20
QSOs. Plus the 9 yr. old girl insisted in going out camping with dad. We
all had a good time. She even promised that if she slept over she would
get her ticket.

73 de Larry.....WD3P in MD

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Date: Wed, 30 Jun 1999 14:09:05 -0700 (PDT)

From: Monte Stark <ku7y@dri.edu>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [43931] July 99 QRP Quarterly

Message-ID: <Pine.GS0.4.10.9906301402550.6126-100000@rotor.dri.edu>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=X-UNKNOWN

Content-Transfer-Encoding: QUOTED-PRINTABLE

Content-Transfer-Encoding: QUOTED-PRINTABLE

Hi All,

Here is the Table of Contents for the July QRP Quarterly.

It will be in the mail either Friday or Monday.

A bit small this issue but it will be bigger next time.

TECHNICAL

=0911=09Another Portable Vertical Antenna

=09=09=09By John Cumming, VE3JC =20

=0913=09Temperature Stabilization for the W1HUE QRP-PLUS Final Amplifier Mo=
d=09
=09=09=09By Larry East, W1HUE
=0922=09Verticals Without Vertigo, Part 1
=09=09=09By L.B. Cebik, W4RNL
=0927=09An All-Band CW/SSB QRP Transceiver Update
=09=09=09By Frank Nance, W6MN
=0937=09An Rx Noise Bridge - Part 1
=09=09=09By Rich Daily, KA80KH
=0940=09Idea Exchange, Technical tidbits for the QRPer
=09=09=09By Mike Czuhajewski, WA8MCQ

OPERATING

=093=09About the Cover
=09=09=09By Ed Loranger, WE6W
=0915=09Still QRP Really! QRP Wisdom From Uncle Bruce
=09=09=09By Bruce Muscolino, W6TOY/3
=0928=09Contests
=09=09=09By Joe Gervais, AB7TT

REVIEWS

=094=09Small Wonder Labs DSW-40 Transceiver Kit
=09=09=09By Chuck Adams, K5FO
=0916=09Software Reviews
=09=09=09By Bruce Muscolino, W6TOY/3
=0948=09Review - K2 Logger Program
=09=09=09By Charles L. Stackhouse, WA2IPZ

MISCELLANEOUS

=092=09From the Editor
=09=09=09By Monte "Ron" Stark, KU7Y
=09=09Guest Editorial
=09=09=09By Laura Halliday, VA3LDH
=096=09Members' News
=09=09=09By Richard Fisher, KI6SN
=0921=09Notes from the President
=09=09=09By Mike Czuhajewski, WA8MCQ
=0926=09QRP Clubhouse
=09=09=09By Jim Stafford, W4QO
=0932=09FDIM/Dayton 1999 Report
=09=09=09By Jim Stafford, W4QO
=0934=09First Major East Coast QRP Gathering Rated =D2Success=D3!
=09=09=09By George Heron, N2APB
=0946=09So You Want to be a Writer
=09=09=09By Richard H. Arland, K7SZ
=0948=09The Tuna Tin 2 Lives!
=09=09=09By Bruce Muscolino, W6TOY/3
=0949=09Prize List

=09=09=09By Scott Rosenfeld, N7JI

For more info on the QRP ARCI check out the WEB page at:

<http://www.qrparci.org>

Thanks,

Ron, KU7Y

Date: Wed, 30 Jun 1999 18:01:41 -0400
From: "James S. Braun" <jbraun@localnet.com>
To: qrp-1@lehigh.edu
Subject: [43932] FS: Alinco DX-70TH
Message-ID: <3.0.5.32.19990630180141.0079dd10@mail.localnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have recently purchased a SG-2020, and now my Alinco DX-70TH is excess to my needs. The DX-70TH was purchased at Dayton this year is in excellent condition (plastic still on face of radio). Covers 150khz to 30mhz & 50mhz to 54mhz all-modes. Is currently setup for Qrp operation at 5watts / 50watts (Internal switch selects outputs to 100w /10w or 50w /5w (high power/ low power). For details / and specs. see: <http://www.alinco.com>

asking \$625
if interested please contact me at (716)229-5630
e-mail: jbraun@localnet.com

Thanks for the bandwidth..../ 72's
Scott
KB2GWF

Date: Wed, 30 Jun 1999 18:38:14 -0400 (EDT)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: Chuck Adams K5FO <adams@ticnet.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [43933] Re: Metal Working 101
Message-ID: <Pine.GS0.4.10.9906301823170.1253-100000@larry.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

>

>I am in awe of the people that do this stuff day in and day out.
>Their skills and knowledge is a vast untapped (no pun intended)
>resource. Some of the people sent me lengthy writeups and these
>same people have never posted one single message in all this time.
>But their English, their writing skills are far advanced about the
>general population and it brought a chill of appreciation to read
>them. I am humbled by it all. Some of you need to think of what
>you know, pick a subtopic and write it up for QQ or some other
>newsletter. Something that QRPers might want to know about in
>their construction/experimenting/workbench/... stuff. There is
>some stuff in the ARRL HB but so much that isn't covered either.

While wishing Chuck every success in his bit of drilling, I want to add my concurrence to his thoughts about what folks know and their ability to explain well. I, too, have had occasion to ask questions and received both long and short replies that are exceptionally well done: both useful and well said.

Hence, it may be mostly the confidence factor that keeps folks from doing an article for QQ or one of the other QRP outlets. I wish I had a magic bullet to kill writer's anxiety, because we are missing some great information that would be useful to a large portion of the gang. Words are just another tool--actually an assortment of tools--that we master by practice. It does not matter that we never master the tools perfectly, so long as we get a little bit better each time we use them.

I hope everyone who develops a technique, a skill, an idea that is useful will share it with all, not only here, but in the QRP journals as well. When someone voluntarily sends a note without any prior obligation to say "Thanks. I needed that." you will have the satisfaction of knowing that you passed along what you know to some one who will use it and pass it along to others.

The web of knowledge begins with each of us.

-73-

LB, W4RNL

Date: Wed, 30 Jun 1999 15:40:49 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43934] Re: Jan DL night

Message-ID: <Pine.GS0.4.10.9906301538450.7477-1000000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Wow,

I just realized.....

I was using the dummy load on the RX side too. Never heard
any of those loud sigs here....

Now I wonder.....how long before someone comes out with a
active dummy load?

Ron, KU7Y

Date: Wed, 30 Jun 1999 17:39:07 -0500
From: "Nick Kennedy" <nkennedy@cswnet.com>
To: "QRP List" <QRP-L@Lehigh.EDU>, <neil@aade.com>
Subject: [43935] Re: dBm
Message-ID: <003e01bec349\$5ddf5960\$db7154d8@big>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: neil <neil@aade.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Wednesday, June 30, 1999 2:20 PM
Subject: Re: dBm

>Sorry to stick my \$.02 worth in but:

>

>>From an engineering point of view one MUST specify the impedance when
>talking about dbm as the number is meaningless without it.

>

Why is that? I mean, I always thought dB expressed a ratio of two powers.
So, if you know P1 and P2, you can calculate dB and it has meaning (to me).

(It gives me an idea of how much bigger P2 is than P1.)

If you know V1 and V2 or I1 and I2 and they are at the same resistance, you can calculate dB again, cause powers are proportional to V^2 or I^2 and the R's cancel when you do the ratio.

If V1 & V2 or I1 & I2 are at different R's, you need the R's to calculate dB.

I'm rambling ... but I still don't see why a power ratio (gain, respect to 1 mw, or whatever) doesn't have meaning without knowing the resistance.

72,

Nick, WA5BDU

Date: Wed, 30 Jun 1999 17:48:17 -0500
From: Dan Copeland <kf0ov@alltel.net>
To: rerobins@email.uncc.edu, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43936] Re: Flame Bait 101
Message-ID: <4.1.19990630173624.00974920@mail.alltel.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I was talking to Burt Fisher today and I asked him why he did not support any ham organizations. He said that all the ARRL cared about was advertising dollars and that the QRP groups could not get their magazines out on time.

OK I said, well what have you been up to? He said that he was building Spud Guns and selling them on Ebay. I said how is that working out? He said the only problem was he was trying to make them out of metal and needed some metal working advice. He was not sure if he could use Q dope to seal them or not.

I asked him what radio he was using and he said an SGC-2020. He said it was prefect for the no code group, and that he was trying to write a unix control program since windows is such junk.

: -)

Dan Copeland N0DT
kf0ov@alltel.net

QCWA Webmaster* ARRL-life member*
QRP-L 1004, ARCI - 9670, OHR-500
<http://www.qcwa.org> | <http://www.dcopeland.com>
"I want to die peacefully in my sleep like my grandfather,
not screaming in terror like his passengers."

Date: Wed, 30 Jun 1999 18:51:58 -0400 (EDT)
From: malman@world.std.com (Joel Malman)
To: qrp-l@Lehigh.EDU
Cc: k1qm@world.std.com
Subject: [43937] Monday night SP !!
Message-ID: <199906302251.AA17307@world.std.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Reminder ...

The SP Sprint is this Monday night (July 5 9pm-11pm, Eastern USA Time).
[First Monday of the month].

We all had a good time on 15 meters during the FD so we know that 15m
is usually open well after dark (eastern time).

Russ has opened up the SP to include all non-contest bands for the SP.
So I hope to catch all of you with the K2's and other multiband rigs
on 15 meters this Monday night.

--
/joel K1QM Concord, MA
QRP-L 337, QRP-ARCI 9305

End of QRP-L Digest 1504

